Initial Study and Mitigated Negative Declaration

Amazon Delivery Station DAX9 Project

Technical Appendices A – G

Prepared for

City of West Covina
1444 West Garvey Avenue South
West Covina, CA 91790
Contact: Jo-Anne Burns
626.939.8761

Prepared by

Psomas
5 Hutton Centre Drive, Suite 300
Santa Ana, California 92707
Contact: Alia Hokuki, AICP
714.481.8065

July 13, 2021

APPENDICES

Appendix

A Air Quality and Greenhouse Gas Emissions Modeling Data
B Tree Inventory Report
C Energy Data
D Geotechnical Study
E1 Phase I and Limited Phase II Environmental Site Assessments
E2 Asbestos and Lead-Based Paint Survey Report
F Noise Impact Analysis
G Traffic Impact Study

Appendix A

Air Quality and Greenhouse Gas Emissions Modeling Data

West Covina Delivery - Los Angeles-South Coast County, Annual

West Covina Delivery

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	177.44	1000sqft	4.07	177,440.00	0
Parking Lot	818.00	Space	16.44	327,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	370.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing facility - repurposing

CO2 intensity for SCE 2019

Land Use - total site is 20.51 ac

Construction Phase - Schedule based on Applicant overall schedule

Off-road Equipment -

Off-road Equipment - Not new construction

Off-road Equipment - Minimal paving; mostly restriping

Trips and VMT - Haul trip for demo debris

Worker vendor trips downsized

Architectural Coating - VOC content for interior and exterior 50 g/L per SCAQMD rule 1113

Vehicle Trips - Trips per TIA

Area Coating - VOC per SCAQMD rule 1113

Water Mitigation -

Waste Mitigation -

Fleet Mix - Fleet mix based on TIA

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	370.00	131.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	6/13/2023	6/15/2022
tblConstructionPhase	PhaseEndDate	4/18/2023	5/18/2022
tblConstructionPhase	PhaseEndDate	5/16/2023	5/25/2022
tblConstructionPhase	PhaseStartDate	5/17/2023	5/26/2022
tblConstructionPhase	PhaseStartDate	4/19/2023	5/19/2022
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.32
tblFleetMix	LDT1	0.04	0.28
tblFleetMix	LDT2	0.20	0.05
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	4.4000e-003
tblFleetMix	MDV	0.12	0.31
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00

tblFleetMix	UBUS	2.2010e-003	0.00
tblLandUse	LotAcreage	7.36	16.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	370.44
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	VendorTripNumber	83.00	10.00
tblTripsAndVMT	WorkerTripNumber	212.00	80.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	42.00	16.00
tblVehicleTrips	ST_TR	1.68	5.15
tblVehicleTrips	SU_TR	1.68	5.15
tblVehicleTrips	WD_TR	1.68	5.15

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0301	0.2354	0.2436	5.2000e-004	0.0158	0.0114	0.0271	4.2000e-003	0.0108	0.0150			45.5792	6.6100e-003	0.0000	45.7445
2022	0.5619	0.6451	0.7255	1.5700e-003	0.0478	0.0297	0.0775	0.0128	0.0282	0.0410			137.5603	0.0196	0.0000	138.0512
Maximum	**0.5619**	**0.6451**	**0.7255**	**1.5700e-003**	**0.0478**	**0.0297**	**0.0775**	**0.0128**	**0.0282**	**0.0410**			**137.5603**	**0.0196**	**0.0000**	**138.0512**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0301	0.2354	0.2436	5.2000e-004	0.0158	0.0114	0.0271	4.2000e-003	0.0108	0.0150			45.5792	6.6100e-003	0.0000	45.7445
2022	0.5619	0.6451	0.7255	1.5700e-003	0.0478	0.0297	0.0775	0.0128	0.0282	0.0410			137.5602	0.0196	0.0000	138.0511
Maximum	**0.5619**	**0.6451**	**0.7255**	**1.5700e-003**	**0.0478**	**0.0297**	**0.0775**	**0.0128**	**0.0282**	**0.0410**			**137.5602**	**0.0196**	**0.0000**	**138.0511**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

1	**11-17-2021**	**2-16-2022**	0.5029	0.5029
2	**2-17-2022**	**5-16-2022**	0.4614	0.4614
3	**5-17-2022**	**8-16-2022**	0.5050	0.5050
		Highest	0.5050	0.5050

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7092	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263
Energy	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			528.6954	0.0408	8.5800e-003	532.2738
Mobile	0.3931	1.5010	6.2367	0.0185	1.4646	0.0141	1.4788	0.3892	0.0131	0.4023			1,690.4094	0.0728	0.0000	1,692.2298
Waste						0.0000	0.0000		0.0000	0.0000			33.8569	2.0009	0.0000	83.8789
Water						0.0000	0.0000		0.0000	0.0000			102.7941	1.3441	0.0330	146.2378
Total	**1.1033**	**1.5100**	**6.2570**	**0.0185**	**1.4646**	**0.0149**	**1.4795**	**0.3892**	**0.0138**	**0.4031**			**2,355.7804**	**3.4587**	**0.0416**	**2,454.6466**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7092	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263
Energy	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			528.6954	0.0408	8.5800e-003	532.2738

Mobile	0.3931	1.5010	6.2367	0.0185	1.4646	0.0141	1.4788	0.3892	0.0131	0.4023			1,690.4094	0.0728	0.0000	1,692.2298
Waste						0.0000	0.0000		0.0000	0.0000			16.9284	1.0004	0.0000	41.9395
Water						0.0000	0.0000		0.0000	0.0000			86.7582	1.1344	0.0279	123.4247
Total	**1.1033**	**1.5100**	**6.2570**	**0.0185**	**1.4646**	**0.0149**	**1.4795**	**0.3892**	**0.0138**	**0.4031**			**2,322.8161**	**2.2486**	**0.0365**	**2,389.8940**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.40**	**34.99**	**12.40**	**2.64**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/17/2021	5/18/2022	5	131	
2	Paving	Paving	5/19/2022	5/25/2022	5	5	
3	Architectural Coating	Architectural Coating	5/26/2022	6/15/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 266,160; Non-Residential Outdoor: 88,720; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	6	80.00	10.00	35.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0238	0.2134	0.1890	3.3000e-004		0.0112	0.0112		0.0106	0.0106			28.1223	5.9500e-003	0.0000	28.2712
Total	**0.0238**	**0.2134**	**0.1890**	**3.3000e-004**		**0.0112**	**0.0112**		**0.0106**	**0.0106**			**28.1223**	**5.9500e-003**	**0.0000**	**28.2712**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2200e-003	2.8000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	6.0000e-005	0.0000	7.0000e-005			0.3361	2.0000e-005	0.0000	0.3366
Vendor	5.1000e-004	0.0163	4.4100e-003	4.0000e-005	1.0400e-003	3.0000e-005	1.0700e-003	3.0000e-004	3.0000e-005	3.3000e-004			4.0672	2.5000e-004	0.0000	4.0734
Worker	5.6800e-003	4.4200e-003	0.0499	1.4000e-004	0.0145	1.2000e-004	0.0146	3.8400e-003	1.1000e-004	3.9500e-003			13.0537	3.8000e-004	0.0000	13.0633
Total	**6.2300e-003**	**0.0219**	**0.0546**	**1.8000e-004**	**0.0157**	**1.5000e-004**	**0.0159**	**4.2000e-003**	**1.4000e-004**	**4.3500e-003**			**17.4570**	**6.5000e-004**	**0.0000**	**17.4734**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0238	0.2134	0.1890	3.3000e-004		0.0112	0.0112		0.0106	0.0106			28.1223	5.9500e-003	0.0000	28.2711
Total	**0.0238**	**0.2134**	**0.1890**	**3.3000e-004**		**0.0112**	**0.0112**		**0.0106**	**0.0106**			**28.1223**	**5.9500e-003**	**0.0000**	**28.2711**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2200e-003	2.8000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	6.0000e-005	0.0000	7.0000e-005			0.3361	2.0000e-005	0.0000	0.3366
Vendor	5.1000e-004	0.0163	4.4100e-003	4.0000e-005	1.0400e-003	3.0000e-005	1.0700e-003	3.0000e-004	3.0000e-005	3.3000e-004			4.0672	2.5000e-004	0.0000	4.0734
Worker	5.6800e-003	4.4200e-003	0.0499	1.4000e-004	0.0145	1.2000e-004	0.0146	3.8400e-003	1.1000e-004	3.9500e-003			13.0537	3.8000e-004	0.0000	13.0633
Total	**6.2300e-003**	**0.0219**	**0.0546**	**1.8000e-004**	**0.0157**	**1.5000e-004**	**0.0159**	**4.2000e-003**	**1.4000e-004**	**4.3500e-003**			**17.4570**	**6.5000e-004**	**0.0000**	**17.4734**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.5698	0.5534	9.8000e-004		0.0285	0.0285		0.0270	0.0270			83.5314	0.0175	0.0000	83.9688
Total	**0.0639**	**0.5698**	**0.5534**	**9.8000e-004**		**0.0285**	**0.0285**		**0.0270**	**0.0270**			**83.5314**	**0.0175**	**0.0000**	**83.9688**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.3600e-003	8.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	8.0000e-005			0.9861	7.0000e-005	0.0000	0.9878
Vendor	1.4300e-003	0.0459	0.0124	1.2000e-004	3.0900e-003	9.0000e-005	3.1700e-003	8.9000e-004	8.0000e-005	9.7000e-004			11.9722	7.2000e-004	0.0000	11.9901
Worker	0.0158	0.0119	0.1366	4.1000e-004	0.0430	3.4000e-004	0.0433	0.0114	3.2000e-004	0.0117			37.4029	1.0300e-003	0.0000	37.4286
Total	**0.0174**	**0.0612**	**0.1498**	**5.4000e-004**	**0.0463**	**4.4000e-004**	**0.0468**	**0.0124**	**4.1000e-004**	**0.0128**			**50.3612**	**1.8200e-003**	**0.0000**	**50.4066**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.5698	0.5534	9.8000e-004		0.0285	0.0285		0.0270	0.0270			83.5313	0.0175	0.0000	83.9687
Total	**0.0639**	**0.5698**	**0.5534**	**9.8000e-004**		**0.0285**	**0.0285**		**0.0270**	**0.0270**			**83.5313**	**0.0175**	**0.0000**	**83.9687**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.3600e-003	8.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	8.0000e-005			0.9861	7.0000e-005	0.0000	0.9878
Vendor	1.4300e-003	0.0459	0.0124	1.2000e-004	3.0900e-003	9.0000e-005	3.1700e-003	8.9000e-004	8.0000e-005	9.7000e-004			11.9722	7.2000e-004	0.0000	11.9901
Worker	0.0158	0.0119	0.1366	4.1000e-004	0.0430	3.4000e-004	0.0433	0.0114	3.2000e-004	0.0117			37.4029	1.0300e-003	0.0000	37.4286
Total	**0.0174**	**0.0612**	**0.1498**	**5.4000e-004**	**0.0463**	**4.4000e-004**	**0.0468**	**0.0124**	**4.1000e-004**	**0.0128**			**50.3612**	**1.8200e-003**	**0.0000**	**50.4066**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1000e-004	3.1400e-003	4.2000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004			0.5124	1.7000e-004	0.0000	0.5165
Paving	0.0215					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	**0.0219**	**3.1400e-003**	**4.2000e-003**	**1.0000e-005**		**1.7000e-004**	**1.7000e-004**		**1.6000e-004**	**1.6000e-004**			**0.5124**	**1.7000e-004**	**0.0000**	**0.5165**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005			0.0954	0.0000	0.0000	0.0955
Total	**4.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**			**0.0954**	**0.0000**	**0.0000**	**0.0955**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1000e-004	3.1400e-003	4.2000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004			0.5124	1.7000e-004	0.0000	0.5165
Paving	0.0215					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	**0.0219**	**3.1400e-003**	**4.2000e-003**	**1.0000e-005**		**1.7000e-004**	**1.7000e-004**		**1.6000e-004**	**1.6000e-004**			**0.5124**	**1.7000e-004**	**0.0000**	**0.5165**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005			0.0954	0.0000	0.0000	0.0955
Total	**4.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**			**0.0954**	**0.0000**	**0.0000**	**0.0955**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4567					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0106	0.0136	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004			1.9149	1.2000e-004	0.0000	1.9181
Total	**0.4582**	**0.0106**	**0.0136**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**			**1.9149**	**1.2000e-004**	**0.0000**	**1.9181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004			1.1450	3.0000e-005	0.0000	1.1458
Total	**4.8000e-004**	**3.6000e-004**	**4.1800e-003**	**1.0000e-005**	**1.3100e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**			**1.1450**	**3.0000e-005**	**0.0000**	**1.1458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4567					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0106	0.0136	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004			1.9149	1.2000e-004	0.0000	1.9181
Total	**0.4582**	**0.0106**	**0.0136**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**			**1.9149**	**1.2000e-004**	**0.0000**	**1.9181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004			1.1450	3.0000e-005	0.0000	1.1458
Total	**4.8000e-004**	**3.6000e-004**	**4.1800e-003**	**1.0000e-005**	**1.3100e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**			**1.1450**	**3.0000e-005**	**0.0000**	**1.1458**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3931	1.5010	6.2367	0.0185	1.4646	0.0141	1.4788	0.3892	0.0131	0.4023			1,690.4094	0.0728	0.0000	1,692.2298
Unmitigated	0.3931	1.5010	6.2367	0.0185	1.4646	0.0141	1.4788	0.3892	0.0131	0.4023			1,690.4094	0.0728	0.0000	1,692.2298

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	913.82	913.82	913.82	3,916,357	3,916,357
Total	913.82	913.82	913.82	3,916,357	3,916,357

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Refrigerated Warehouse-No Rail	0.324900	0.280100	0.049200	0.310700	0.000000	0.000000	0.000000	0.030600	0.000000	0.000000	0.004400	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			518.9424	0.0406	8.4100e-003	522.4629
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			518.9424	0.0406	8.4100e-003	522.4629
NaturalGas Mitigated	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			9.7529	1.9000e-004	1.8000e-004	9.8109
NaturalGas Unmitigated	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			9.7529	1.9000e-004	1.8000e-004	9.8109

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	182763	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			9.7529	1.9000e-004	1.8000e-004	9.8109
Total		**9.9000e-004**	**8.9600e-003**	**7.5300e-003**	**5.0000e-005**		**6.8000e-004**	**6.8000e-004**		**6.8000e-004**	**6.8000e-004**			**9.7529**	**1.9000e-004**	**1.8000e-004**	**9.8109**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	182763	9.9000e-004	8.9600e-003	7.5300e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004			9.7529	1.9000e-004	1.8000e-004	9.8109
Total		**9.9000e-004**	**8.9600e-003**	**7.5300e-003**	**5.0000e-005**		**6.8000e-004**	**6.8000e-004**		**6.8000e-004**	**6.8000e-004**			**9.7529**	**1.9000e-004**	**1.8000e-004**	**9.8109**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	114520	19.2427	1.5100e-003	3.1000e-004	19.3732
Refrigerated Warehouse-No Rail	2.97389e+006	499.6998	0.0391	8.0900e-003	503.0897
Total		**518.9424**	**0.0406**	**8.4000e-003**	**522.4629**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	114520	19.2427	1.5100e-003	3.1000e-004	19.3732
Refrigerated Warehouse-No Rail	2.97389e+006	499.6998	0.0391	8.0900e-003	503.0897
Total		**518.9424**	**0.0406**	**8.4000e-003**	**522.4629**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7092	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263
Unmitigated	0.7092	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0457					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6623					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263
Total	**0.7092**	**1.2000e-004**	**0.0127**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**			**0.0247**	**7.0000e-005**	**0.0000**	**0.0263**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0457					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6623					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.1800e-003	1.2000e-004	0.0127	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0247	7.0000e-005	0.0000	0.0263
Total	**0.7092**	**1.2000e-004**	**0.0127**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**			**0.0247**	**7.0000e-005**	**0.0000**	**0.0263**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	86.7582	1.1344	0.0279	123.4247
Unmitigated	102.7941	1.3441	0.0330	146.2378

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	41.033 / 0	102.7941	1.3441	0.0330	146.2378
Total		**102.7941**	**1.3441**	**0.0330**	**146.2378**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	34.6319 / 0	86.7582	1.1344	0.0279	123.4247
Total		**86.7582**	**1.1344**	**0.0279**	**123.4247**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.9284	1.0004	0.0000	41.9395
Unmitigated	33.8569	2.0009	0.0000	83.8789

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	166.79	33.8569	2.0009	0.0000	83.8789
Total		**33.8569**	**2.0009**	**0.0000**	**83.8789**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	83.395	16.9284	1.0004	0.0000	41.9395
Total		**16.9284**	**1.0004**	**0.0000**	**41.9395**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

West Covina Delivery - Los Angeles-South Coast County, Summer

West Covina Delivery

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	177.44	1000sqft	4.07	177,440.00	0
Parking Lot	818.00	Space	16.44	327,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	370.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing facility - repurposing

CO2 intensity for SCE 2019

Land Use - total site is 20.51 ac

Construction Phase - Schedule based on Applicant overall schedule

Off-road Equipment -

Off-road Equipment - Not new construction

Off-road Equipment - Minimal paving; mostly restriping

Trips and VMT - Haul trip for demo debris

Worker vendor trips downsized

Architectural Coating - VOC content for interior and exterior 50 g/L per SCAQMD rule 1113

Vehicle Trips - Trips per TIA

Area Coating - VOC per SCAQMD rule 1113

Water Mitigation -

Waste Mitigation -

Fleet Mix - Fleet mix based on TIA

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	370.00	131.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	6/13/2023	6/15/2022
tblConstructionPhase	PhaseEndDate	4/18/2023	5/18/2022
tblConstructionPhase	PhaseEndDate	5/16/2023	5/25/2022
tblConstructionPhase	PhaseStartDate	5/17/2023	5/26/2022
tblConstructionPhase	PhaseStartDate	4/19/2023	5/19/2022
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.32
tblFleetMix	LDT1	0.04	0.28
tblFleetMix	LDT2	0.20	0.05
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	4.4000e-003
tblFleetMix	MDV	0.12	0.31
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00

tblFleetMix	UBUS	2.2010e-003	0.00
tblLandUse	LotAcreage	7.36	16.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	370.44
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	VendorTripNumber	83.00	10.00
tblTripsAndVMT	WorkerTripNumber	212.00	80.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	42.00	16.00
tblVehicleTrips	ST_TR	1.68	5.15
tblVehicleTrips	SU_TR	1.68	5.15
tblVehicleTrips	WD_TR	1.68	5.15

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8194	14.2136	14.9447	0.0319	0.9734	0.6888	1.6622	0.2594	0.6531	0.9125			3,087.2694	0.4424	0.0000	3,098.3296
2022	61.1640	12.8312	14.5229	0.0315	0.9641	0.5904	1.5545	0.2572	0.5601	0.8172			3,052.9378	0.4350	0.0000	3,063.8123
Maximum	**61.1640**	**14.2136**	**14.9447**	**0.0319**	**0.9734**	**0.6888**	**1.6622**	**0.2594**	**0.6531**	**0.9125**			**3,087.2694**	**0.4424**	**0.0000**	**3,098.3296**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8194	14.2136	14.9447	0.0319	0.9734	0.6888	1.6622	0.2594	0.6531	0.9125			3,087.2694	0.4424	0.0000	3,098.3296
2022	61.1640	12.8312	14.5229	0.0315	0.9641	0.5904	1.5545	0.2572	0.5601	0.8172			3,052.9378	0.4350	0.0000	3,063.8123
Maximum	**61.1640**	**14.2136**	**14.9447**	**0.0319**	**0.9734**	**0.6888**	**1.6622**	**0.2594**	**0.6531**	**0.9125**			**3,087.2694**	**0.4424**	**0.0000**	**3,098.3296**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Energy	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Mobile	2.2942	7.7835	35.9810	0.1057	8.2082	0.0776	8.2858	2.1780	0.0720	2.2500			10,650.2684	0.4496		10,661.5073
Total	**6.1886**	**7.8335**	**36.1241**	**0.1060**	**8.2082**	**0.0817**	**8.2899**	**2.1780**	**0.0761**	**2.2541**			**10,709.3946**	**0.4513**	**1.0800e-003**	**10,720.9979**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Energy	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Mobile	2.2942	7.7835	35.9810	0.1057	8.2082	0.0776	8.2858	2.1780	0.0720	2.2500			10,650.2684	0.4496		10,661.5073
Total	**6.1886**	**7.8335**	**36.1241**	**0.1060**	**8.2082**	**0.0817**	**8.2899**	**2.1780**	**0.0761**	**2.2541**			**10,709.3946**	**0.4513**	**1.0800e-003**	**10,720.9979**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/17/2021	5/18/2022	5	131	
2	Paving	Paving	5/19/2022	5/25/2022	5	5	
3	Architectural Coating	Architectural Coating	5/26/2022	6/15/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 266,160; Non-Residential Outdoor: 88,720; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	6	80.00	10.00	35.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4439	12.9353	11.4519	0.0200		0.6793	0.6793		0.6443	0.6443			1,878.7579	0.3978		1,888.7038
Total	**1.4439**	**12.9353**	**11.4519**	**0.0200**		**0.6793**	**0.6793**		**0.6443**	**0.6443**			**1,878.7579**	**0.3978**		**1,888.7038**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2300e-003	0.0717	0.0168	2.1000e-004	0.0152	2.2000e-004	0.0154	3.8600e-003	2.1000e-004	4.0700e-003			22.6150	1.5300e-003		22.6534
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203			274.8806	0.0162		275.2855
Worker	0.3429	0.2357	3.2222	9.1500e-003	0.8942	7.2300e-003	0.9014	0.2372	6.6600e-003	0.2438			911.0159	0.0268		911.6870
Total	**0.3756**	**1.2783**	**3.4928**	**0.0119**	**0.9734**	**9.4400e-003**	**0.9828**	**0.2594**	**8.7700e-003**	**0.2682**			**1,208.5115**	**0.0446**		**1,209.6258**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4439	12.9353	11.4519	0.0200		0.6793	0.6793		0.6443	0.6443			1,878.7579	0.3978		1,888.7038
Total	**1.4439**	**12.9353**	**11.4519**	**0.0200**		**0.6793**	**0.6793**		**0.6443**	**0.6443**			**1,878.7579**	**0.3978**		**1,888.7038**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2300e-003	0.0717	0.0168	2.1000e-004	0.0152	2.2000e-004	0.0154	3.8600e-003	2.1000e-004	4.0700e-003			22.6150	1.5300e-003		22.6534
Vendor	0.0304	0.9709	0.2538	2.5700e-003	0.0640	1.9900e-003	0.0660	0.0184	1.9000e-003	0.0203			274.8806	0.0162		275.2855
Worker	0.3429	0.2357	3.2222	9.1500e-003	0.8942	7.2300e-003	0.9014	0.2372	6.6600e-003	0.2438			911.0159	0.0268		911.6870
Total	**0.3756**	**1.2783**	**3.4928**	**0.0119**	**0.9734**	**9.4400e-003**	**0.9828**	**0.2594**	**8.7700e-003**	**0.2682**			**1,208.5115**	**0.0446**		**1,209.6258**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3044	11.6284	11.2933	0.0200		0.5814	0.5814		0.5518	0.5518			1,879.1346	0.3936		1,888.9739
Total	**1.3044**	**11.6284**	**11.2933**	**0.0200**		**0.5814**	**0.5814**		**0.5518**	**0.5518**			**1,879.1346**	**0.3936**		**1,888.9739**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1200e-003	0.0666	0.0166	2.1000e-004	5.8600e-003	1.9000e-004	6.0500e-003	1.5700e-003	1.8000e-004	1.7600e-003			22.3475	1.5100e-003		22.3853
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201			272.4859	0.0156		272.8768
Worker	0.3212	0.2129	2.9728	8.8200e-003	0.8942	7.0000e-003	0.9012	0.2372	6.4500e-003	0.2436			878.9699	0.0243		879.5764
Total	**0.3519**	**1.2028**	**3.2296**	**0.0116**	**0.9641**	**8.9300e-003**	**0.9730**	**0.2572**	**8.2900e-003**	**0.2655**			**1,173.8032**	**0.0414**		**1,174.8385**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3044	11.6284	11.2933	0.0200		0.5814	0.5814		0.5518	0.5518			1,879.1346	0.3936		1,888.9739
Total	**1.3044**	**11.6284**	**11.2933**	**0.0200**		**0.5814**	**0.5814**		**0.5518**	**0.5518**			**1,879.1346**	**0.3936**		**1,888.9739**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1200e-003	0.0666	0.0166	2.1000e-004	5.8600e-003	1.9000e-004	6.0500e-003	1.5700e-003	1.8000e-004	1.7600e-003			22.3475	1.5100e-003		22.3853
Vendor	0.0285	0.9233	0.2402	2.5500e-003	0.0640	1.7400e-003	0.0658	0.0184	1.6600e-003	0.0201			272.4859	0.0156		272.8768
Worker	0.3212	0.2129	2.9728	8.8200e-003	0.8942	7.0000e-003	0.9012	0.2372	6.4500e-003	0.2436			878.9699	0.0243		879.5764
Total	**0.3519**	**1.2028**	**3.2296**	**0.0116**	**0.9641**	**8.9300e-003**	**0.9730**	**0.2572**	**8.2900e-003**	**0.2655**			**1,173.8032**	**0.0414**		**1,174.8385**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1235	1.2567	1.6785	2.3300e-003		0.0676	0.0676		0.0622	0.0622			225.9292	0.0731		227.7560
Paving	8.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.7381**	**1.2567**	**1.6785**	**2.3300e-003**		**0.0676**	**0.0676**		**0.0622**	**0.0622**			**225.9292**	**0.0731**		**227.7560**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0161	0.0107	0.1486	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122			43.9485	1.2100e-003		43.9788
Total	**0.0161**	**0.0107**	**0.1486**	**4.4000e-004**	**0.0447**	**3.5000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**			**43.9485**	**1.2100e-003**		**43.9788**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1235	1.2567	1.6785	2.3300e-003		0.0676	0.0676		0.0622	0.0622			225.9292	0.0731		227.7560
Paving	8.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.7381**	**1.2567**	**1.6785**	**2.3300e-003**		**0.0676**	**0.0676**		**0.0622**	**0.0622**			**225.9292**	**0.0731**		**227.7560**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0161	0.0107	0.1486	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122			43.9485	1.2100e-003		43.9788
Total	**0.0161**	**0.0107**	**0.1486**	**4.4000e-004**	**0.0447**	**3.5000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**			**43.9485**	**1.2100e-003**		**43.9788**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.8953					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
Total	**61.0998**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**			**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487			175.7940	4.8500e-003		175.9153
Total	**0.0642**	**0.0426**	**0.5946**	**1.7600e-003**	**0.1788**	**1.4000e-003**	**0.1802**	**0.0474**	**1.2900e-003**	**0.0487**			**175.7940**	**4.8500e-003**		**175.9153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.8953					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
Total	**61.0998**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**			**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487			175.7940	4.8500e-003		175.9153
Total	**0.0642**	**0.0426**	**0.5946**	**1.7600e-003**	**0.1788**	**1.4000e-003**	**0.1802**	**0.0474**	**1.2900e-003**	**0.0487**			**175.7940**	**4.8500e-003**		**175.9153**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2942	7.7835	35.9810	0.1057	8.2082	0.0776	8.2858	2.1780	0.0720	2.2500			10,650.2684	0.4496		10,661.5073
Unmitigated	2.2942	7.7835	35.9810	0.1057	8.2082	0.0776	8.2858	2.1780	0.0720	2.2500			10,650.2684	0.4496		10,661.5073

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	913.82	913.82	913.82	3,916,357	3,916,357
Total	913.82	913.82	913.82	3,916,357	3,916,357

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Refrigerated Warehouse-No Rail	0.324900	0.280100	0.049200	0.310700	0.000000	0.000000	0.000000	0.030600	0.000000	0.000000	0.004400	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
NaturalGas Unmitigated	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	500.721	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Total		**5.4000e-003**	**0.0491**	**0.0412**	**2.9000e-004**		**3.7300e-003**	**3.7300e-003**		**3.7300e-003**	**3.7300e-003**			**58.9084**	**1.1300e-003**	**1.0800e-003**	**59.2584**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0.500721	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Total		**5.4000e-003**	**0.0491**	**0.0412**	**2.9000e-004**		**3.7300e-003**	**3.7300e-003**		**3.7300e-003**	**3.7300e-003**			**58.9084**	**1.1300e-003**	**1.0800e-003**	**59.2584**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Unmitigated	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.4700e-003	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Total	**3.8889**	**9.3000e-004**	**0.1018**	**1.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**			**0.2179**	**5.7000e-004**		**0.2322**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.4700e-003	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Total	**3.8889**	**9.3000e-004**	**0.1018**	**1.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**			**0.2179**	**5.7000e-004**		**0.2322**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

West Covina Delivery - Los Angeles-South Coast County, Winter

West Covina Delivery

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	177.44	1000sqft	4.07	177,440.00	0
Parking Lot	818.00	Space	16.44	327,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	370.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing facility - repurposing

CO2 intensity for SCE 2019

Land Use - total site is 20.51 ac

Construction Phase - Schedule based on Applicant overall schedule

Off-road Equipment -

Off-road Equipment - Not new construction

Off-road Equipment - Minimal paving; mostly restriping

Trips and VMT - Haul trip for demo debris

Worker vendor trips downsized

Architectural Coating - VOC content for interior and exterior 50 g/L per SCAQMD rule 1113

Vehicle Trips - Trips per TIA

Area Coating - VOC per SCAQMD rule 1113

Water Mitigation -

Waste Mitigation -

Fleet Mix - Fleet mix based on TIA

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	370.00	131.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	PhaseEndDate	6/13/2023	6/15/2022
tblConstructionPhase	PhaseEndDate	4/18/2023	5/18/2022
tblConstructionPhase	PhaseEndDate	5/16/2023	5/25/2022
tblConstructionPhase	PhaseStartDate	5/17/2023	5/26/2022
tblConstructionPhase	PhaseStartDate	4/19/2023	5/19/2022
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.32
tblFleetMix	LDT1	0.04	0.28
tblFleetMix	LDT2	0.20	0.05
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	4.4000e-003
tblFleetMix	MDV	0.12	0.31
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00

tblFleetMix	UBUS	2.2010e-003	0.00
tblLandUse	LotAcreage	7.36	16.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	370.44
tblTripsAndVMT	HaulingTripNumber	0.00	35.00
tblTripsAndVMT	VendorTripNumber	83.00	10.00
tblTripsAndVMT	WorkerTripNumber	212.00	80.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	42.00	16.00
tblVehicleTrips	ST_TR	1.68	5.15
tblVehicleTrips	SU_TR	1.68	5.15
tblVehicleTrips	WD_TR	1.68	5.15

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8595	14.2377	14.6966	0.0313	0.9734	0.6888	1.6622	0.2594	0.6532	0.9126			3,026.1276	0.4419	0.0000	3,037.1756
2022	61.1714	12.8521	14.2900	0.0309	0.9641	0.5904	1.5545	0.2572	0.5601	0.8173			2,993.7174	0.4346	0.0000	3,004.5818
Maximum	**61.1714**	**14.2377**	**14.6966**	**0.0313**	**0.9734**	**0.6888**	**1.6622**	**0.2594**	**0.6532**	**0.9126**			**3,026.1276**	**0.4419**	**0.0000**	**3,037.1756**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8595	14.2377	14.6966	0.0313	0.9734	0.6888	1.6622	0.2594	0.6532	0.9126			3,026.1276	0.4419	0.0000	3,037.1756
2022	61.1714	12.8521	14.2900	0.0309	0.9641	0.5904	1.5545	0.2572	0.5601	0.8173			2,993.7174	0.4346	0.0000	3,004.5818
Maximum	**61.1714**	**14.2377**	**14.6966**	**0.0313**	**0.9734**	**0.6888**	**1.6622**	**0.2594**	**0.6532**	**0.9126**			**3,026.1276**	**0.4419**	**0.0000**	**3,037.1756**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Energy	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Mobile	2.2160	8.0772	33.6253	0.1001	8.2082	0.0780	8.2861	2.1780	0.0723	2.2503			10,086.3984	0.4406		10,097.4132
Total	**6.1103**	**8.1272**	**33.7684**	**0.1004**	**8.2082**	**0.0820**	**8.2902**	**2.1780**	**0.0763**	**2.2544**			**10,145.5247**	**0.4423**	**1.0800e-003**	**10,156.9039**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Energy	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Mobile	2.2160	8.0772	33.6253	0.1001	8.2082	0.0780	8.2861	2.1780	0.0723	2.2503			10,086.3984	0.4406		10,097.4132
Total	**6.1103**	**8.1272**	**33.7684**	**0.1004**	**8.2082**	**0.0820**	**8.2902**	**2.1780**	**0.0763**	**2.2544**			**10,145.5247**	**0.4423**	**1.0800e-003**	**10,156.9039**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	11/17/2021	5/18/2022	5	131	
2	Paving	Paving	5/19/2022	5/25/2022	5	5	
3	Architectural Coating	Architectural Coating	5/26/2022	6/15/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 266,160; Non-Residential Outdoor: 88,720; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	6	80.00	10.00	35.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4439	12.9353	11.4519	0.0200		0.6793	0.6793		0.6443	0.6443			1,878.7579	0.3978		1,888.7038
Total	**1.4439**	**12.9353**	**11.4519**	**0.0200**		**0.6793**	**0.6793**		**0.6443**	**0.6443**			**1,878.7579**	**0.3978**		**1,888.7038**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2800e-003	0.0726	0.0178	2.0000e-004	0.0152	2.2000e-004	0.0154	3.8600e-003	2.1000e-004	4.0700e-003			22.2232	1.5900e-003		22.2629
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204			267.3455	0.0173		267.7770
Worker	0.3815	0.2609	2.9461	8.6100e-003	0.8942	7.2300e-003	0.9014	0.2372	6.6600e-003	0.2438			857.8009	0.0252		858.4319
Total	**0.4157**	**1.3024**	**3.2446**	**0.0113**	**0.9734**	**9.5000e-003**	**0.9829**	**0.2594**	**8.8300e-003**	**0.2683**			**1,147.3696**	**0.0441**		**1,148.4719**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4439	12.9353	11.4519	0.0200		0.6793	0.6793		0.6443	0.6443			1,878.7579	0.3978		1,888.7038
Total	**1.4439**	**12.9353**	**11.4519**	**0.0200**		**0.6793**	**0.6793**		**0.6443**	**0.6443**			**1,878.7579**	**0.3978**		**1,888.7038**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2800e-003	0.0726	0.0178	2.0000e-004	0.0152	2.2000e-004	0.0154	3.8600e-003	2.1000e-004	4.0700e-003			22.2232	1.5900e-003		22.2629
Vendor	0.0319	0.9689	0.2808	2.5000e-003	0.0640	2.0500e-003	0.0661	0.0184	1.9600e-003	0.0204			267.3455	0.0173		267.7770
Worker	0.3815	0.2609	2.9461	8.6100e-003	0.8942	7.2300e-003	0.9014	0.2372	6.6600e-003	0.2438			857.8009	0.0252		858.4319
Total	**0.4157**	**1.3024**	**3.2446**	**0.0113**	**0.9734**	**9.5000e-003**	**0.9829**	**0.2594**	**8.8300e-003**	**0.2683**			**1,147.3696**	**0.0441**		**1,148.4719**

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3044	11.6284	11.2933	0.0200		0.5814	0.5814		0.5518	0.5518			1,879.1346	0.3936		1,888.9739
Total	**1.3044**	**11.6284**	**11.2933**	**0.0200**		**0.5814**	**0.5814**		**0.5518**	**0.5518**			**1,879.1346**	**0.3936**		**1,888.9739**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1700e-003	0.0673	0.0176	2.0000e-004	5.8600e-003	1.9000e-004	6.0600e-003	1.5700e-003	1.9000e-004	1.7600e-003			21.9569	1.5600e-003		21.9960
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202			264.9703	0.0167		265.3866
Worker	0.3583	0.2356	2.7134	8.3000e-003	0.8942	7.0000e-003	0.9012	0.2372	6.4500e-003	0.2436			827.6556	0.0228		828.2253
Total	**0.3904**	**1.2238**	**2.9968**	**0.0110**	**0.9641**	**8.9800e-003**	**0.9731**	**0.2572**	**8.3500e-003**	**0.2655**			**1,114.5828**	**0.0410**		**1,115.6079**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3044	11.6284	11.2933	0.0200		0.5814	0.5814		0.5518	0.5518			1,879.1346	0.3936		1,888.9739
Total	**1.3044**	**11.6284**	**11.2933**	**0.0200**		**0.5814**	**0.5814**		**0.5518**	**0.5518**			**1,879.1346**	**0.3936**		**1,888.9739**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1700e-003	0.0673	0.0176	2.0000e-004	5.8600e-003	1.9000e-004	6.0600e-003	1.5700e-003	1.9000e-004	1.7600e-003			21.9569	1.5600e-003		21.9960
Vendor	0.0300	0.9208	0.2658	2.4800e-003	0.0640	1.7900e-003	0.0658	0.0184	1.7100e-003	0.0202			264.9703	0.0167		265.3866
Worker	0.3583	0.2356	2.7134	8.3000e-003	0.8942	7.0000e-003	0.9012	0.2372	6.4500e-003	0.2436			827.6556	0.0228		828.2253
Total	**0.3904**	**1.2238**	**2.9968**	**0.0110**	**0.9641**	**8.9800e-003**	**0.9731**	**0.2572**	**8.3500e-003**	**0.2655**			**1,114.5828**	**0.0410**		**1,115.6079**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1235	1.2567	1.6785	2.3300e-003		0.0676	0.0676		0.0622	0.0622			225.9292	0.0731		227.7560
Paving	8.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.7381**	**1.2567**	**1.6785**	**2.3300e-003**		**0.0676**	**0.0676**		**0.0622**	**0.0622**			**225.9292**	**0.0731**		**227.7560**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0179	0.0118	0.1357	4.2000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122			41.3828	1.1400e-003		41.4113
Total	**0.0179**	**0.0118**	**0.1357**	**4.2000e-004**	**0.0447**	**3.5000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**			**41.3828**	**1.1400e-003**		**41.4113**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1235	1.2567	1.6785	2.3300e-003		0.0676	0.0676		0.0622	0.0622			225.9292	0.0731		227.7560
Paving	8.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**8.7381**	**1.2567**	**1.6785**	**2.3300e-003**		**0.0676**	**0.0676**		**0.0622**	**0.0622**			**225.9292**	**0.0731**		**227.7560**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0179	0.0118	0.1357	4.2000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122			41.3828	1.1400e-003		41.4113
Total	**0.0179**	**0.0118**	**0.1357**	**4.2000e-004**	**0.0447**	**3.5000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**			**41.3828**	**1.1400e-003**		**41.4113**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.8953					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
Total	**61.0998**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**			**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487			165.5311	4.5600e-003		165.6451
Total	**0.0717**	**0.0471**	**0.5427**	**1.6600e-003**	**0.1788**	**1.4000e-003**	**0.1802**	**0.0474**	**1.2900e-003**	**0.0487**			**165.5311**	**4.5600e-003**		**165.6451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.8953					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
Total	**61.0998**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**			**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487			165.5311	4.5600e-003		165.6451
Total	**0.0717**	**0.0471**	**0.5427**	**1.6600e-003**	**0.1788**	**1.4000e-003**	**0.1802**	**0.0474**	**1.2900e-003**	**0.0487**			**165.5311**	**4.5600e-003**		**165.6451**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2160	8.0772	33.6253	0.1001	8.2082	0.0780	8.2861	2.1780	0.0723	2.2503			10,086.3984	0.4406		10,097.4132
Unmitigated	2.2160	8.0772	33.6253	0.1001	8.2082	0.0780	8.2861	2.1780	0.0723	2.2503			10,086.3984	0.4406		10,097.4132

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	913.82	913.82	913.82	3,916,357	3,916,357
Total	913.82	913.82	913.82	3,916,357	3,916,357

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Refrigerated Warehouse-No Rail	0.324900	0.280100	0.049200	0.310700	0.000000	0.000000	0.000000	0.030600	0.000000	0.000000	0.004400	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
NaturalGas Unmitigated	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	500.721	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Total		**5.4000e-003**	**0.0491**	**0.0412**	**2.9000e-004**		**3.7300e-003**	**3.7300e-003**		**3.7300e-003**	**3.7300e-003**			**58.9084**	**1.1300e-003**	**1.0800e-003**	**59.2584**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0.500721	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003			58.9084	1.1300e-003	1.0800e-003	59.2584
Total		**5.4000e-003**	**0.0491**	**0.0412**	**2.9000e-004**		**3.7300e-003**	**3.7300e-003**		**3.7300e-003**	**3.7300e-003**			**58.9084**	**1.1300e-003**	**1.0800e-003**	**59.2584**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Unmitigated	3.8889	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.4700e-003	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Total	**3.8889**	**9.3000e-004**	**0.1018**	**1.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**			**0.2179**	**5.7000e-004**		**0.2322**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2503					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.4700e-003	9.3000e-004	0.1018	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004			0.2179	5.7000e-004		0.2322
Total	**3.8889**	**9.3000e-004**	**0.1018**	**1.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**			**0.2179**	**5.7000e-004**		**0.2322**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

Tree Inventory Report

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

WEST COVINA INDUSTRIAL PROJECT
TREE INVENTORY REPORT
1211 EAST BADILLO STREET
WEST COVINA, CALIFORNIA 91722

SUBMITTED TO:

MG2
1101 SECOND AVENUE, SUITE 100
SEATTLE, WASHINGTON 98101

PREPARED BY:

CY CARLBERG
ASCA REGISTERED CONSULTING ARBORIST #405
ISA CERTIFIED ARBORIST #WE 0575A
ISA QUALIFIED TREE RISK ASSESSOR

JAMES SANCHEZ
ISA CERTIFIED ARBORIST #WE 9883A
ISA QUALIFIED TREE RISK ASSESSOR

Santa Monica Office
828 Fifth Street, Suite 3
Santa Monica, California 90403
Office: 310.451.4804

Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
Office: 626.428.5072

www.cycarlberg.com

NOVEMBER 6, 2020

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

BACKGROUND AND ASSIGNMENT 1

OBSERVATIONS 1

CONCLUSION 2

TABLE 1 – SUMMARY OF ASSESSED TREE SPECIES 3

EXHIBIT 1 – AERIAL IMAGE OF SUBJECT PROPERTY 4

EXHIBIT 2 – REDUCED COPY OF TREE INVENTORY & IMPACT EXHIBIT + PROTECTION PLAN 5

TABLE 2 – TREE INVENTORY DATA 7

CAPTIONED TREE PHOTOGRAPHS 19

HEALTH AND STRUCTURE GRADE DEFINITIONS 37

DEFINITION OF TERMS AND ABBREVIATIONS 39

ARBORIST DISCLOSURE STATEMENT 40

RESUMES 41

COVER PAGE FOR MAP POCKET - FULL SIZE TREE LOCATION & IMPACT EXHIBIT + PROTECTION PLAN (2 SHEETS, 20-SCALE, 24" X 36)

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

November 6, 2020

MG2
1101 Second Avenue, Suite 100
Seattle, Washington 98101

Re: West Covina Industrial Project, 1211 East Badillo Street, West Covina, California 91722
Tree Inventory Report

EXECUTIVE SUMMARY

A total of 210 trees and palms were inventoried as part of the proposed West Covina Industrial Project located at 1211 East Badillo Street in West Covina, California. Of those 210 trees/palms, 114 are proposed to be removed and 96 preserved in place. There are no California native trees on the property.

BACKGROUND AND ASSIGNMENT

The site comprises a one-story warehouse-type building surrounded by surface parking and turfgrass. The area is bordered by residential and commercial development and bounded by four of West Covina's major thoroughfares. The existing office building and parking lots will be refurbished to accommodate the new owner's commercial plan.

This report was prepared in accordance with West Covina's Municipal Code, Chapter 26, Division 9: 'Preservation, Protection, and Removal of Trees' and the requirements set forth for an arborist report. We inventoried all trees on the property regardless of size; there are no City rights-of-way trees associated with the property and no offsite trees whose canopies overhang into the site.

OBSERVATIONS

Carlberg performed the field inventory on October 27 and November 2, 2020; a total of 210 trees were evaluated. Table 1 on page 3 describes the diversity and quantity of each tree species and its proposed disposition, and the field data spreadsheet at the end of the report contains the required data for each tree. A reduced copy of the Tree Inventory and Impact Exhibit + Protection Plan is included herein and full-size, color copies of the drawings are included at the end of this report in the map pockets.

Santa Monica Office
828 Fifth Street, Suite 3
Santa Monica, California 90403
Office: 310.451.4804

Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
Office: 626.428.5072

www.cycarlberg.com

CONCLUSION

If the project proceeds as proposed, 114 trees/palms will be removed and 98 trees/palms preserved in place. The Tree Location and Impact Exhibit + Protection Plan illustrates tree number, trunk location (approximated if not professionally surveyed), canopy spread, and disposition (remove/preserve). The Tree Protection Plan shows the location of construction fencing that will enclose those trees (or groups of trees) to be protected during the demolition and construction process.

Please feel welcome to contact me at our Santa Monica office if you have any immediate questions or concerns.

Respectfully submitted,





Cy Carlberg
Registered Consulting Arborist

Note: This report comprises a total of 45 pages and one full-size map (2 sheets). Unauthorized separation or removal of any portion of this report deems it invalid as a whole. Conditions represented in this report are limited to the inventory date and time. Risk assessments were not requested nor performed for the purposes of this report. Ratings for health, aesthetics, and structure do not constitute a health or structural guarantee beyond the date and time of the inspection.

TABLE 1 – SUMMARY OF ASSESSED TREE SPECIES

Common Name	Botanical Name	Quantities	Remove	Retain
Australian willow	*Geijera parviflora*	18	11	7
Brazilian pepper	*Schinus terebinthifolius*	1	0	1
Brisbane box	*Lophostemon confertus*	1	0	1
camphor	*Cinnamomum camphora*	10	7	3
Canary Island pine	*Pinus canariensis*	2	0	2
Chinese flame tree	*Koelreuteria bipinnata*	2	0	2
Chinese pistache	*Pistacia chinensis*	7	6	1
coral gum	*Eucalyptus torquata*	3	0	3
crape myrtle	*Lagerstroemia indica*	11	11	0
date palm	*Phoenix dactylifera*	32	12	20
dawn redwood	*Metasequoia glyptostroboides*	3	0	3
Indian laurel fig	*Ficus microcarpa*	26	0	26
magnolia	*Magnolia grandiflora*	3	3	0
mimosa	*Albizia julibrissin*	3	3	0
pomegranate	*Punica granatum*	1	0	1
queen palm	*Syagrus romanzoffiana*	78	63	15
shamel ash	*Fraxinus uhdei*	2	0	2
silk oak	*Grevillea robusta*	12	0	2
xylosma	*Xylosma congestum*	5	0	5
	Totals	**210**	**114**	**96**

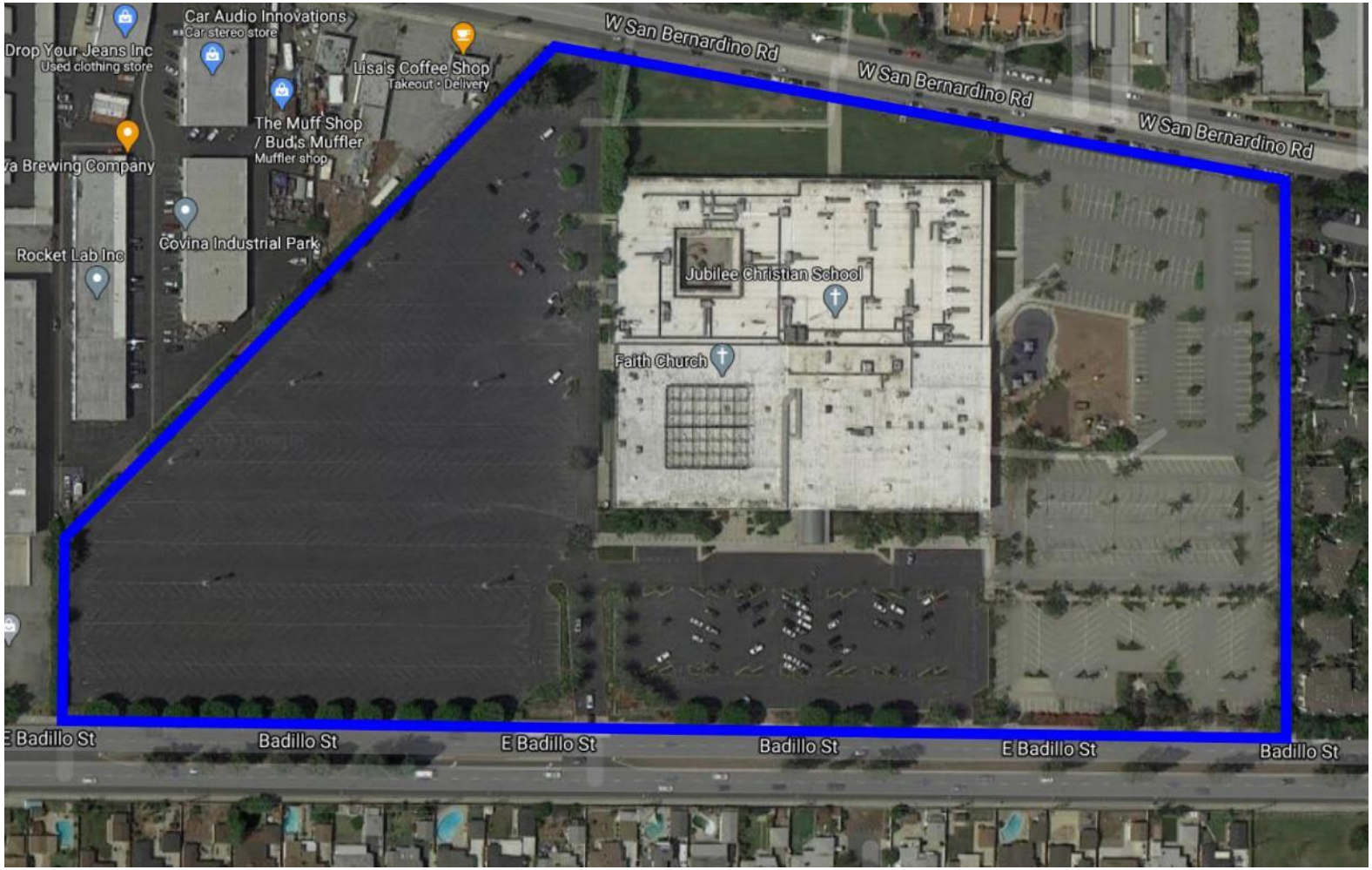


EXHIBIT 1 – AERIAL IMAGE OF 1211 BADILLO STREET, WEST COVINA, CALIFORNIA 91722
(PROPERTY BOUNDARY IS FOR ILLUSTRATIVE PURPOSES ONLY)
SOURCE: Google

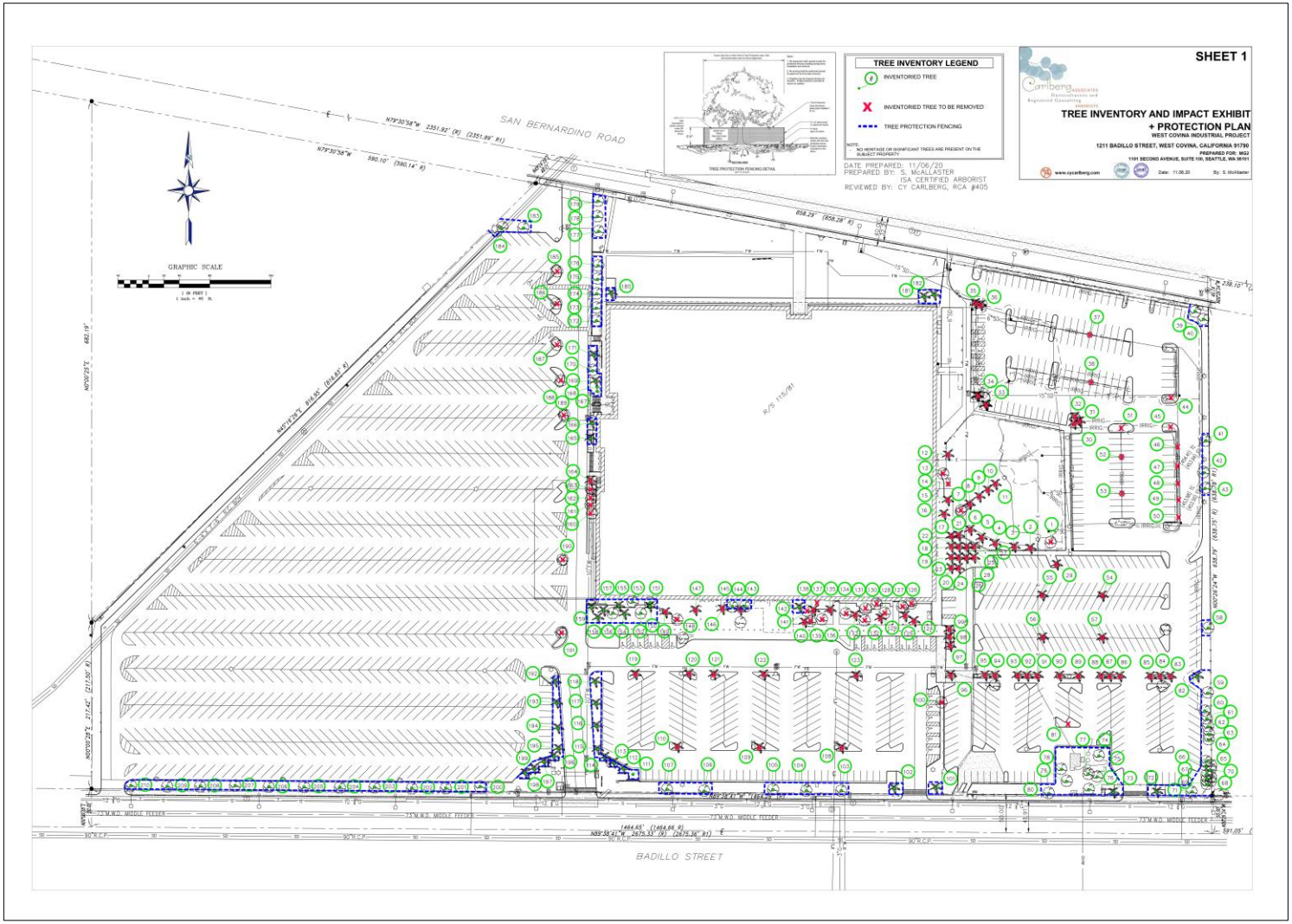


EXHIBIT 2 – REDUCED COPY OF TREE INVENTORY AND IMPACT EXHIBIT + PROTECTION PLAN
(2 SHEETS - NOT TO SCALE)

West Covina Tree Protection Notes:

Root Protection Zone

Tree roots are generally located in the top 12 - 36 inches of soil and can extend to a distance exceeding the trees height and/or width. The larger, structural roots located 3-5 feet from the trunk are often relatively inactive, and if cut, can become infected with root disease that may cause a column of decay or sapwood death in the trunk and root collar. Dieback related to cambium death will reach the lateral branches and top of the tree with time. The smaller feeder/absorptive roots of the tree can sustain damage during construction from lack of water, soil compaction or physical damage resulting from cutting. The following guidelines are designed to minimize damage to the root system of protected trees. The following establish a "Root Protection Zone" to safeguard the health of protected trees and other trees to remain.

1. Some encroachments may be unavoidable. The Project Arborist shall monitor all work that must be performed in the Root Protection Zone.
2. Protective chain-link fencing, at least five feet in height, with an access gate of minimal width, should be installed at the limits of the Root Protection Zone (as drawn on the Tree Protection Plan) and approved in place by the Project Arborist and city staff prior to the commencement of any demolition, grubbing, grading or construction. This pertains to both public (parkway trees, etc.) and private trees.
3. When chain link fencing cannot be placed to the limits of the Root Protection Zone, the Project Arborist may require that orange snow fencing be placed at the limits of the Root Protection Zone as a temporary protection measure until the encroachment work will be performed. This will be determined at a pre-demo/pre-construction job site meeting with the contractor and/or applicant.
4. The Root Protection Zone should be irrigated sufficiently with clean potable water to keep the tree in good health and vigor before, during, and after construction. This may mean deeply soaking the ground periodically. Installation of layers of sand bags or other material to create a watering well, or berm, may be necessary. The Project Arborist will recommend this activity, if necessary.
5. No construction staging or disposal of construction materials or byproducts including but not limited to paint, plaster, or chemical solutions is allowed in the Root Protection Zone.
6. The Root Protection Zone should not be subjected to flooding incidental to the construction work.
7. All work conducted in the ground within the Root Protection Zone of any protected tree should be accomplished with hand tools, unless an air-spade is utilized. Trenches in the Root Protection Zone should be tunneled, or completed with an air-spade to avoid damage to small feeder roots within the root protection zone. Information regarding air-spades is available from the project arborist.
8. Any required trenching should be routed in such a manner as to minimize root damage. Radial trenching (radial to the tree trunk) is preferred as it is less harmful than tangential trenching. Construction activity should be diverted from the Root Protection Zone. Cutting of roots should be avoided (i.e. place pipes and cables below uncut roots). Wherever possible and in accordance with applicable code requirements, the same trench should be used for multiple utilities.
9. "Natural" or pre-construction grade should be maintained in the Root Protection Zone. At no time during or after construction should soil be in contact with the trunk of the tree above the basal flare.
10. In areas where the grade around the protected tree will be lowered, some root cutting may be unavoidable. Cuts should be clean and made at right angles to the roots. When practical, cut roots back to a branching lateral root. The Project Arborist shall monitor all root pruning.
11. When removing existing pavement in the Root Protection Zone, avoid the use of heavy equipment, which will compact and damage the root system. The Project Arborist shall monitor all demolition activities in the Root Protection Zones.
12. If the Project Arborist requires mulch in the Root Protection Zone, the mulch materials and location will be shown on the plan.
13. Root damage and soil compaction may be mitigated in some cases by using plywood, mulch, or mulch and plywood in the Root Protection Zone. The Project Arborist may require this action at any point during demolition and construction as the project progresses and will work with the contractor to implement the best management practices.
14. Weather proof, minimum 8 x 10 inches, signage shall be applied to the fencing on all sides that states:

Tree Protection Fencing

Do Not Remove Without Authorization From

The City of West Covina

Questions - call Project Arborist: Carlberg Associates

Christy Cuba (626) 428-5072 or Cy Carlberg (310) 451-4804

Pruning

1. Pruning shall be monitored by the Project Arborist at intervals and durations as they see fit to maintain tree integrity.
2. Pruning of all trees should be in accordance with industry standards (International Society of Arboriculture or ANZI 133.1).
3. Pruning of oaks should be limited to the removal of dead wood and the correction of potentially hazardous conditions, as evaluated by the Project Arborist. Excessive pruning is harmful to oaks and many other trees. Removal or reduction of major structural limbs should be done only as required for actual building clearance or safety, and only at the recommendation of the Project Arborist. If limbs must be removed, cuts should be made perpendicular to the branch, to limit the size of the cut face. The branch bark collar should be preserved (i. e. no "flush cuts"), and cuts should be made in such a way as to prevent the tearing of bark from the tree.
4. Pruning of trees other than oaks should be limited to the removal or reduction of major structural limbs and should be done only as required for actual building clearance or safety, and only at the recommendation of the Project Arborist. If limbs must be removed, cuts should be made perpendicular to the branch, to limit the size of the cut face. The branch bark collar should be preserved (i. e. no "flush cuts"), and cuts should be made in such a way as to prevent the tearing of bark from the tree.

A. Inspections

1. Inspection of Protective Fencing: The Project Arborist shall inspect the tree protection fencing prior to demolition, grubbing, grading, or construction. City staff may also inspect fencing to verify placement and approval of materials prior to the commencement of demolition, grading, or construction.
2. Pre-construction meeting. City staff may require an on-site pre-construction meeting with the contractor and or applicant to discuss tree protection with the site supervisor, grading equipment contractors, and demolition crew. The Project Arborist shall be present at that meeting.
3. Inspection of rough grading. City staff my require inspection to ensure protected trees will not be injured by compaction, cut or fill, drainage and trenching activities.
4. Special Activity in the Tree Protection Zone: The Project Arborist shall provide direct on-site supervision of work in the tree protection zone, as they deem appropriate.
5. Periodic Inspections: City staff may require inspections verifying adherence to tree protection measures during the on-going construction process. Allow a minimum of 48 hours for scheduling inspections.
6. The Project Arborist shall report discrepancies or deficiencies in Tree Protection to the site superintendent for corrective action. If corrective actions are not taken in a reasonable time frame, the Project Arborist may notify City staff for enforcement action.

E. Definitions

1. Basal flare or root crown means the tree trunk where it emerges from the root system and flares out to create the base of the tree.
2. Canopy means the area of a tree that consists primarily of branches and leaves.
3. Dripline means the outermost area of the tree canopy (leafy area of tree).
4. Certified Arborist means an individual who has demonstrated knowledge and competency through obtainment of the current International Society of Arboriculture arborist certification.
5. Root Protection Zone means the area within the overhanging foliage in the tree canopy.

Public Trees-Maintained by the City of West Covina

- Trees that are located in a center median or in the parkway between the curb face and the property line, and therefore are public trees. To have any work done on these trees, including installation of Tree Protection Fencing, contact City Maintenance Division 626-919-6966. A permit is required for fencing parkway trees. The Public Works Department Tree Protection Standard Specification is included on this Tree Protection Plan.



TABLE 2 – TREE INVENTORY DATA

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
1	camphor	*Cinnamomum camphora*	14,7	20	15	18	15	15	a	b
2	queen palm	*Syagrus romanzoffiana*	BT-15	23	10	10	10	10	a	a
3	queen palm	*Syagrus romanzoffiana*	BT-23	30	10	10	10	10	a	a
4	queen palm	*Syagrus romanzoffiana*	BT-15	23	10	10	10	10	a	a
5	queen palm	*Syagrus romanzoffiana*	BT-23	30	10	10	10	10	a	a
6	queen palm	*Syagrus romanzoffiana*	BT-15	23	10	10	10	10	a	a
7	camphor	*Cinnamomum camphora*	9	15	10	10	10	10	b	b
8	queen palm	*Syagrus romanzoffiana*	BT-12	20	10	10	10	10	a	a
9	queen palm	*Syagrus romanzoffiana*	BT-12	20	10	10	10	10	a	a
10	queen palm	*Syagrus romanzoffiana*	BT-12	20	10	10	10	10	a	a
11	queen palm	*Syagrus romanzoffiana*	BT-12	20	10	10	10	10	a	a
12	queen palm	*Syagrus romanzoffiana*	BT-20	25	10	10	10	10	a	a
13	queen palm	*Syagrus romanzoffiana*	BT-22	28	12	12	12	12	a	a
14	queen palm	*Syagrus romanzoffiana*	BT-20	25	10	10	10	10	a	a
15	queen palm	*Syagrus romanzoffiana*	BT-15	20	10	10	10	10	a	a
16	queen palm	*Syagrus romanzoffiana*	BT-20	25	10	10	10	10	a	a
17	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
18	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
19	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
20	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
21	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
22	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
23	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
24	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
25	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
26	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
27	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
28	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
29	queen palm	*Syagrus romanzoffiana*	BT-20	27	12	12	12	12	a	a
30	queen palm	*Syagrus romanzoffiana*	BT-20	27	10	10	10	10	a	a
31	queen palm	*Syagrus romanzoffiana*	BT-20	27	10	10	10	10	a	a
32	queen palm	*Syagrus romanzoffiana*	BT-20	27	10	10	10	10	a	a
33	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
34	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
35	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
36	queen palm	*Syagrus romanzoffiana*	BT-13	20	10	10	10	10	a	a
37	crape myrtle	*Lagerstroemia indica*	3.5	12	8	8	8	8	a	a
38	crape myrtle	*Lagerstroemia indica*	3.4	12	8	8	8	8	a	a
39	coral gum	*Eucalyptus torquata*	20.5	35	12	8	15	12	a	b
40	dawn redwood	*Metasequoia glyptostroboides*	6.1	20	10	10	10	10	b	b
41	dawn redwood	*Metasequoia glyptostroboides*	9.3	30	10	10	10	10	b	a
42	camphor	*Cinnamomum camphora*	16	30	15	15	15	18	a	b
43	dawn redwood	*Metasequoia glyptostroboides*	7.8	30	6	6	6	6	c	b
44	crape myrtle	*Lagerstroemia indica*	3	12	8	8	8	8	b	b
45	crape myrtle	*Lagerstroemia indica*	3	12	8	8	8	8	b	a
46	crape myrtle	*Lagerstroemia indica*	4	15	8	8	8	8	a	a
47	crape myrtle	*Lagerstroemia indica*	3.5	15	8	8	8	8	a	a
48	crape myrtle	*Lagerstroemia indica*	3.7	15	8	8	8	8	a	a
49	crape myrtle	*Lagerstroemia indica*	4	15	8	8	8	8	a	a
50	crape myrtle	*Lagerstroemia indica*	4.2	15	10	10	10	10	a	a
51	mimosa	*Albizia julibrissin*	5	12	12	12	7	10	c	c
52	crape myrtle	*Lagerstroemia indica*	3.4	12	8	8	8	8	a	a
53	crape myrtle	*Lagerstroemia indica*	3.2	12	8	8	8	8	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
54	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
55	queen palm	*Syagrus romanzoffiana*	BT-12	25	6	6	6	6	b	a
56	queen palm	*Syagrus romanzoffiana*	BT-12	25	6	6	6	6	b	a
57	queen palm	*Syagrus romanzoffiana*	BT-20	30	6	6	6	6	a	a
58	Brazilian pepper	*Schinus terebinthifolius*	16	25	12	0	10	16	a	b
59	shamel ash	*Fraxinus uhdei*	40	17	27	12	15	20	a	b
60	coral gum	*Eucalyptus torquata*	12.5	30	11	3	0	19	b	b
61	shamel ash	*Fraxinus uhdei*	7.5,10.5	30	20	15	10	20	b	b
62	silk oak	*Grevillea robusta*	12.5,12.7	55	12	12	12	12	b	b
63	coral gum	*Eucalyptus torquata*	20	40	10	0	18	25	a	b
64	silk oak	*Grevillea robusta*	11.1	40	10	10	10	10	b	b
65	xylosma	*Xylosma congestum*	9.1	20	12	10	12	13	b	b
66	xylosma	*Xylosma congestum*	5,5.5	12	6	8	6	4	c	c
67	xylosma	*Xylosma congestum*	7	20	12	7	7	15	b-	b-
68	xylosma	*Xylosma congestum*	7.1	20	9	6	10	10	b-	b
69	xylosma	*Xylosma congestum*	6, 5.6	15	4	7	12	4	b	b
70	Brisbane box	*Lophostemon confertus*	10.5	35	10	10	10	5	a	a
71	Indian laurel fig	*Ficus microcarpa*	17.8, 19, 30	30	24	22	25	15	a	b

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
72	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
73	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
74	Australian willow	*Geijera parviflora*	7.3	20	12	12	10	10	b	b
75	Australian willow	*Geijera parviflora*	9.2	20	12	12	12	12	a	a
76	Australian willow	*Geijera parviflora*	7.4	20	8	10	12	10	b	b
77	Australian willow	*Geijera parviflora*	10.4	25	12	12	12	8	a	b
78	Australian willow	*Geijera parviflora*	6.4	20	3	3	7	12	b	b
79	Australian willow	*Geijera parviflora*	10	25	12	12	12	12	a	b
80	Indian laurel fig	*Ficus microcarpa*	28	30	15	15	15	15	a	b
81	mimosa	*Albizia julibrissin*	2 @ 2ft	8	6	6	5	4	a	b
82	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
83	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
84	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
85	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
86	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
87	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
88	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
89	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
90	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
91	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
92	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
93	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
94	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
95	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
96	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
97	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
98	queen palm	*Syagrus romanzoffiana*	bt18	30	12	12	12	12	a	a
99	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
100	mimosa	*Albizia julibrissin*	7	13	10	10	10	10	b-	b-
101	date palm	*Phoenix dactylifera*	BT-30	40	12	12	12	12	a	a
102	date palm	*Phoenix dactylifera*	BT-20	30	12	12	12	12	a	a
103	Indian laurel fig	*Ficus microcarpa*	14.7,13, 20.8, 20.8	30	15	20	20	17	a	b
104	Indian laurel fig	*Ficus microcarpa*	23.5	30	15	21	15	16	a	b
105	Indian laurel fig	*Ficus microcarpa*	28.5	30	15	20	15	15	a	b
106	Indian laurel fig	*Ficus microcarpa*	34.3	30	15	20	15	18	a	b
107	Indian laurel fig	*Ficus microcarpa*	31	30	15	18	15	18	a	b

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
108	queen palm	*Syagrus romanzoffiana*	BT-20	25	6	6	6	6	b	a
109	queen palm	*Syagrus romanzoffiana*	BT-20	28	10	10	10	10	a	a
110	queen palm	*Syagrus romanzoffiana*	BT-20	25	6	6	6	6	b	a
111	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
112	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
113	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
114	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
115	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
116	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
117	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
118	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
119	queen palm	*Syagrus romanzoffiana*	BT-8	13	6	6	6	6	b	a
120	queen palm	*Syagrus romanzoffiana*	BT-10	15	6	6	6	6	a	a
121	queen palm	*Syagrus romanzoffiana*	BT-15	20	6	6	6	6	a	a
122	queen palm	*Syagrus romanzoffiana*	BT-10	15	7	7	7	7	a	a
123	queen palm	*Syagrus romanzoffiana*	BT-10	16	7	7	7	7	a	a
124	queen palm	*Syagrus romanzoffiana*	BT-22	30	12	12	12	12	a	a
125	queen palm	*Syagrus romanzoffiana*	BT-24	33	12	12	12	12	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
126	Australian willow	*Geijera parviflora*	11.8	25	4	18	15	18	a	b
127	Australian willow	*Geijera parviflora*	6.8	20	6	3	15	12	a	b
128	camphor	*Cinnamomum camphora*	12.5	30	15	18	15	10	b	b
129	queen palm	*Syagrus romanzoffiana*	BT-25	35	12	12	12	12	a	a
130	Australian willow	*Geijera parviflora*	6.3	22	4	12	10	9	b	b
131	Australian willow	*Geijera parviflora*	9.7	25	10	12	12	12	a	b
132	camphor	*Cinnamomum camphora*	10.8	20	12	18	18	15	b	b
133	queen palm	*Syagrus romanzoffiana*	BT-25	35	12	12	12	12	a	a
134	camphor	*Cinnamomum camphora*	8.4	25	15	9	18	10	b	b
135	queen palm	*Syagrus romanzoffiana*	BT-25	35	10	10	10	10	a	a
136	camphor	*Cinnamomum camphora*	13.6	25	15	18	18	15	b	b
137	Australian willow	*Geijera parviflora*	1.7	12	5	5	5	5	b	a
138	queen palm	*Syagrus romanzoffiana*	BT-23	30	10	10	10	10	b	b
139	Chinese pistache	*Pistacia chinensis*	9.2	20	12	12	18	15	b	b
140	queen palm	*Syagrus romanzoffiana*	BT-22	27	6	6	6	6	b	b
141	Chinese pistache	*Pistacia chinensis*	11	25	15	12	15	15	b	b
142	queen palm	*Syagrus romanzoffiana*	BT-22	27	10	10	10	10	b	b
143	Chinese flame	*Koelreuteria bipinnata*	11.2	20	12	10	15	10	b	b

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
144	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	b	b
145	Chinese flame	*Koelreuteria bipinnata*	6.4	20	11	10	12	12	b	b
146	queen palm	*Syagrus romanzoffiana*	BT-20	25	6	6	6	6	b	b
147	queen palm	*Syagrus romanzoffiana*	BT-23	27	6	6	6	6	b	b
148	camphor	*Cinnamomum camphora*	10.3	23	12	12	12	12	b	b
149	queen palm	*Syagrus romanzoffiana*	BT-23	33	12	12	12	12	a	a
150	Australian willow	*Geijera parviflora*	5.8	17	3	6	12	10	b	b
151	queen palm	*Syagrus romanzoffiana*	BT-23	26	10	10	10	10	b	b
152	camphor	*Cinnamomum camphora*	9	20	10	12	15	10	b	b
153	Australian willow	*Geijera parviflora*	7.7	18	4	6	15	8	b	b
154	queen palm	*Syagrus romanzoffiana*	BT-15	23	6	6	6	6	b	b
155	queen palm	*Syagrus romanzoffiana*	BT-25	30	10	10	10	10	a	b
156	camphor	*Cinnamomum camphora*	8.8	20	9	10	12	12	b	b
157	queen palm	*Syagrus romanzoffiana*	BT-25	33	12	12	12	12	a	b
158	queen palm	*Syagrus romanzoffiana*	BT-23	27	10	10	10	10	b	b
159	queen palm	*Syagrus romanzoffiana*	BT-25	30	10	10	10	10	a	b
160	Australian willow	*Geijera parviflora*	12	30	10	6	15	20	a	b
161	Australian willow	*Geijera parviflora*	8	30	6	6	12	12	b	b

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
162	Australian willow	*Geijera parviflora*	8	30	6	6	12	12	a	b
163	Australian willow	*Geijera parviflora*	12	30	15	5	15	17	a	b
164	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
165	queen palm	*Syagrus romanzoffiana*	BT-25	30	12	12	12	12	a	a
166	queen palm	*Syagrus romanzoffiana*	BT-25	33	12	12	12	12	a	a
167	pomegranate	*Punica granatum*	1, 1, 1, 1	7	6	6	6	6	b-	b
168	Chinese pistache	*Pistacia chinensis*	2.2	9	9	3	6	7	b	b
169	queen palm	*Syagrus romanzoffiana*	BT-20	27	10	10	10	10	a	a
170	Australian willow	*Geijera parviflora*	10.2	20	15	7	12	12	a	b
171	queen palm	*Syagrus romanzoffiana*	BT-20	27	10	10	10	10	a	a
172	Indian laurel fig	*Ficus microcarpa*	26.2	25	12	12	18	21	b	b
173	Indian laurel fig	*Ficus microcarpa*	21.5	25	12	12	15	21	b	b
174	Indian laurel fig	*Ficus microcarpa*	23	25	12	12	12	21	b	b
175	Indian laurel fig	*Ficus microcarpa*	25.8	25	12	15	12	21	b	b
176	Indian laurel fig	*Ficus microcarpa*	27	25	18	15	10	21	b	b
177	Indian laurel fig	*Ficus microcarpa*	29.5	25	12	15	24	21	b	b
178	Indian laurel fig	*Ficus microcarpa*	24	25	12	15	12	21	b	b
179	Indian laurel fig	*Ficus microcarpa*	24.5	25	18	15	10	21	b	b

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
180	queen palm	*Syagrus romanzoffiana*	BT-23	30	12	12	12	12	a	a
181	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
182	queen palm	*Syagrus romanzoffiana*	BT-20	30	12	12	12	12	a	a
183	Canary Island pine	*Pinus canariensis*	34	50	20	25	20	12	a	a
184	Canary Island pine	*Pinus canariensis*	28.5	50	20	23	15	15	a	a
185	Chinese pistache	*Pistacia chinensis*	11.7	20	20	18	18	21	b-	b
186	Chinese pistache	*Pistacia chinensis*	8.7	20	15	13	15	13	b	b
187	Chinese pistache	*Pistacia chinensis*	11.6	20	9	9	11	11	c	b-
188	Chinese pistache	*Pistacia chinensis*	9.1	20	12	12	12	12	b	b
189	magnolia	*Magnolia grandiflora*	19	30	15	15	18	18	b	b
190	magnolia	*Magnolia grandiflora*	16.2	25	15	13	12	15	b	b
191	magnolia	*Magnolia grandiflora*	19	25	20	21	18	22	b-	b
192	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
193	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
194	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
195	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
196	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
197	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a

Tag No.	Common Name	Botanical Name	DBH (inches) or BT Height (feet)*	Height	N	E	S	W	Health (a-f)	Structure (a-f)
198	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
199	date palm	*Phoenix dactylifera*	BT-25	35	15	15	15	15	a	a
200	Indian laurel fig	*Ficus microcarpa*	29.2	25	18	21	15	21	b	b
201	Indian laurel fig	*Ficus microcarpa*	29.6	25	15	21	15	18	b	b
202	Indian laurel fig	*Ficus microcarpa*	29.5	25	15	21	15	15	b	b
203	Indian laurel fig	*Ficus microcarpa*	25.7	25	15	18	15	15	b	b
204	Indian laurel fig	*Ficus microcarpa*	26.4	25	15	15	15	15	b	b
205	Indian laurel fig	*Ficus microcarpa*	25.3	25	15	18	15	16	b	b
206	Indian laurel fig	*Ficus microcarpa*	25.5	25	15	18	15	18	b	b
207	Indian laurel fig	*Ficus microcarpa*	28.5	25	15	24	15	18	b	b
208	Indian laurel fig	*Ficus microcarpa*	28.2	25	15	20	15	18	b	b
209	Indian laurel fig	*Ficus microcarpa*	27.6	25	15	21	15	15	b	b
210	Indian laurel fig	*Ficus microcarpa*	30.6	25	15	24	15	21	b	b

Note: * = Because palms do not typically increase in trunk diameter as they mature, they are measured in 'Brown Trunk Height' (**BT**), the distance between grade and the base of the newest emerging spear.

dbh – Diameter at Breast Height – a forestry term referring to a tree's trunk diameter measured at 4.5 feet above grade. Often used as a representation of tree size.

CAPTIONED TREE PHOTOGRAPHS



Tree #1



Tree #2



Tree #3



Tree #4



Tree #5



Tree #6



Tree #7



Tree #8



Tree #9



Tree #10



Tree #11



Tree #12



Tree #13



Tree #14



Tree #15



Tree #16



Trees #17(L) #28(R)



Tree #29



Trees #30(L) #32(R)



Trees #33(L) #34(R)



Trees #35(L) #36(R)



Tree #37



Tree #38



Trees #39(L) #40(R)



Tree #41



Tree #42



Tree #43



Tree #44



Tree #45



Tree #46



Tree #47



Tree #48



Tree #49



Tree #50



Tree #51



Tree #52



Tree #53



Tree #54



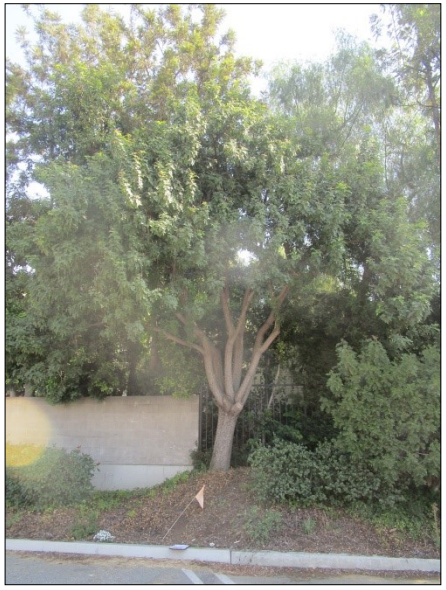
Tree #55



Tree #56



Tree #57



Tree #58



Tree #59



Tree #60



Trees #61(L) - #64(R)



Trees #65(L) - #69(R)



Tree #70



Tree #71



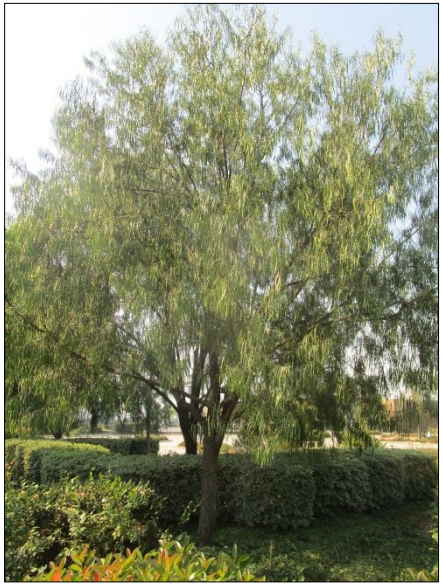
Tree #72



Tree #73



Tree #74



Tree #75



Tree #76



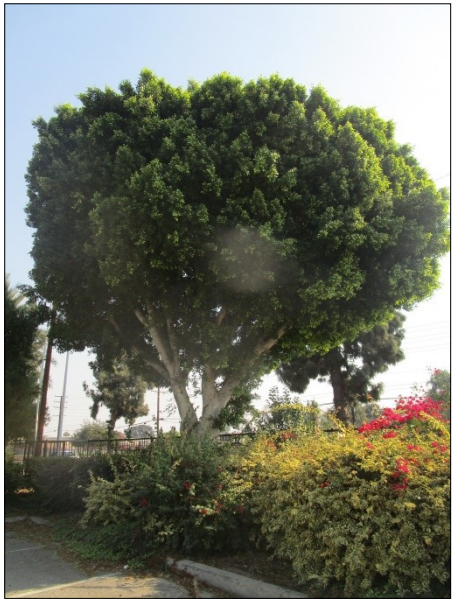
Tree #77



Tree #78



Tree #79



Tree #80



Tree #81



Tree #82



Trees #83(R) #85(L)



Trees #86(R) #88(L)



Trees #89(R) #90(L)



Trees #91(R) #93(L)



Trees #94(R) #95(L)



Tree #96



Trees #97(L) #99(R)



Tree #100



Tree #101



Tree #102



Tree #103



Tree #104



Tree #105



Tree #106



Tree #107



Tree #108



Tree #109



Tree #110



Trees #111(L) #115(R)



Trees #116(L) #118(R)



Tree #119



Tree #120



Tree #121



Tree #122



Tree #123



Trees #124(R) #134(L)



Trees #135(R) #142(L)



Trees #143(R) #146(L)



Trees #147(R) #149(L)



Trees #150(R) #151(L)



Trees #152(R) #153(L)



Trees #154(R) #159(L)



Trees #160(R) #164(L)



Trees #165(R) #166(L)



Trees #167(R) #168(L)



Trees #169(R) #171(L)



Trees #172(R) #179(L)



Tree #180



Trees #181(R) - #182(L)



Trees #183(R) - #184(L)



Tree #185



Tree #186



Tree #187



Tree #188



Tree #189



Tree #190



Tree #191



Trees #192(L) #199(R)



Trees #200(L) #210(R)

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings of the trees are based on the archetype tree of the same species through a subjective evaluation of its physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition were rated A-F:

Health

A. Outstanding – Exceptional trees of good growth form and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during current season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.

B. Above average – Good to very good trees that exhibit minor necrotic or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.

C. Average – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small deadwood in outer crown areas, decreased shoot growth and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.

D. Below Average/Poor - trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.

F. Dead or in spiral of decline – this tree exhibits very little to no signs of life.

Structure

A. Outstanding – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that result in a sturdy form or architecture that resists failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward sign of

decay or pathological disease is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an "A" grade.

B. Above average - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists failure under normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.

C. Average - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.

D. Well Below Average/Poor - Trees poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.

F. Severely Compromised – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.

Definition of Terms

dbh – Diameter at Breast Height. A forestry term used to describe a tree's trunk diameter measured at 4.5 feet above grade. Often used as a representation of tree height.

BT – Brown Trunk. Because palms do not typically increase in trunk diameter as they age, they are measured in "Brown Trunk Height," the distance between grade and the newest emerging spear.

Codoms – Codominant Stems. Two branches of the same or equal diameter are called codominant. This can be a structural weakness it the angle of attachment is narrow.

Epicormic – Epicormic shoots are those that grow from indeterminant places along the trunk or along branches. Sometimes a sign of stress or overpruning.

HR – Heart Rot – wood decay fungus in the interior of a trunk or branch

HOB – History of Breakage. A tree that experiences more than two spontaneous breakages is referred to as having a "history" of breakage. The individual tree may have a propensity for future failures.

MBA – Multiple Branch Attachments. A trunk may be less able to support the weight of its canopy if multiple branches arise from one point in the trunk.

MPE – Multiple Pruning Events.

LCR – Live crown ratio

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Risk assessments were neither requested nor performed on any of the trees for this project.

CY CARLBERG
CARLBERG ASSOCIATES
828 Fifth Street, Suite 3 • Santa Monica • California • 90403
cy@cycarlberg.com • o: 310.451.4804 • www.cycarlberg.com

Education
B.S., Landscape Architecture, California State Polytechnic University, Pomona, 1985
Graduate, Arboricultural Consulting Academy, American Society of Consulting Arborists, Chicago, Illinois, February 2002
Graduate, Municipal Forestry Institute, Lied, Nebraska, 2012

Experience
Consulting Arborist, Carlberg Associates, 1998-present
Manager of Grounds Services, California Institute of Technology, Pasadena, 1992-1998
Director of Grounds, Scripps College, Claremont, 1988-1992

Certificates
Certified Arborist (#WE-0575A), International Society of Arboriculture, 1990
Registered Consulting Arborist (#405), American Society of Consulting Arborists, 2002
Certified Urban Forester (#013), California Urban Forests Council, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2011

AREAS OF EXPERTISE

Ms. Carlberg is experienced in the following areas of tree management and preservation:

- Tree health and risk assessment
- Master Planning
- Historic landscape assessments, preservation plans, reports
- Tree inventories and reports to satisfy jurisdictional requirements
- Expert Testimony
- Post-fire assessment, valuation, and mitigation for trees and native plant communities
- Value assessments for native and non-native trees
- Pest and disease identification
- Guidelines for oak preservation
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation

PREVIOUS CONSULTING EXPERIENCE

Ms. Carlberg has overseen residential and commercial construction projects to prevent damage to protected and specimen trees. She has thirty-five years of experience in arboriculture and horticulture and has performed tree health evaluation, value and risk assessment, and expert testimony for private clients, government agencies, cities, school districts, and colleges. Representative clients include:

The Huntington Library and Botanical Gardens
The Los Angeles Zoo and Botanical Gardens
The Rose Bowl and Brookside Golf Course, Pasadena
Walt Disney Concert Hall and Gardens
The Art Center College of Design, Pasadena
Pepperdine University
Loyola Marymount University
The Claremont Colleges (Pomona, Scripps, CMC, Harvey Mudd, Claremont Graduate University, Pitzer, Claremont University Center)
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
Getty Trust – Eames House
Historic Resources Group
The City of Claremont
The City of Beverly Hills
The City of Pasadena
The City of Los Angeles
The City of Santa Monica
Santa Monica/Malibu Unified School District
San Diego Gas & Electric
Los Angeles Department of Water and Power
Rancho Santa Ana Botanic Garden, Claremont
Latham & Watkins, LLP (attorneys at law)
Architectural Resources Group
AHBE Landscape Architects
Moule and Polyzoides, Architects and Urbanists

AFFILIATIONS

Ms. Carlberg serves with the following national, state, and community professional organizations:

- California Urban Forests Council, Board Member, 1995-2006
- Street Tree Seminar, Past President, 2000-present
- American Society of Consulting Arborists Academy, Faculty Member, 2003-2005; 2014
- American Society of Consulting Arborists, Board of Directors, 2013-2015
- Member, Los Angeles Oak Woodland Habitat Conservation Strategic Alliance, 2010-present

JAMES SANCHEZ
CARLBERG ASSOCIATES
828 5th Street, Suite 3, Santa Monica, California 90403
james@cycarlberg.com • m: 310.924.2246 • www.cycarlberg.com

Education — Graduate, Environmental Horticulture Program, El Camino College, Torrance, California, 2002
Graduate, Hawthorne High School, Hawthorne, California, 1995

Experience — Staff Arborist, Carlberg Associates, 2015-present
Community Forester, Tree Musketeers, 2010-2014
Interior Plant Technician, Reliable Plant Service, 2008-2009
Exterior Plant Technician, Inner Gardens, 2006-2007
Exterior Plant Lead, Rolling Greens Nursery, 2005-2006
Nursery Foremen, Big Seven Nursery, 2001-2003

Certificates — Certified Arborist (#WE-9883A), International Society of Arboriculture, 2012
Environmental Horticulture Certificate, El Camino College, 2002

AREAS OF EXPERTISE

Mr. Sanchez is experienced in the following areas of tree management and preservation:

- Tree health assessment
- Tree inventories and reports to satisfy jurisdictional requirements
- Pest and disease identification
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Working with community and city leaders in large tree planting programs

PREVIOUS CONSULTING EXPERIENCE

Mr. Sanchez has performed tree inventories, health evaluations, and impact analyses for private developers, architects, engineers, and homeowners. He has over 14 years of experience in arboriculture and is trained in environmental horticulture. Representative clients include:

City of Pasadena
City of South Gate
Metropolitan Transit Authority
E & S Ring, Inc.
Hollywood Forever Cemetery
Archdiocese of Los Angeles
City of Signal Hill
Kovac Architects
City of Torrance
Ojai Valley Community Hospital
The Kibo Group
Monte Vista Grove Homes
Google Venice
John Anson Ford Theater
The Village Green, Baldwin Hills
Camp Munz/Menenhall
Hotel Figueroa
California State University, Long Beach
Pacific Charter School
Mill Creek Development
Los Angeles Unified School District
City of South Gate
Claremont Golf Course
The New Home Company
William Carey University
City of Inglewood
Universal Hilton
Gensler Architects
Marmol Radziner, Architects
Rose Bowl Stadium
Aurora/Signature Health Services
Colfax Charter Elementary School
Highpointe Communities
Snapchat
Los Angeles Football Club
Monte Cedro Senior Living
Southern California Edison
Howard Hughes Center
Katella High School
Square One Homes
EPT Landscape Architecture
Tim Barber, Ltd., Architects

AFFILIATIONS

Mr. Sanchez serves with the following national professional organizations:

- Member in good standing, International Society of Arboriculture, Western Chapter

INSERT FULL-SIZE COPY OF TREE LOCATION & IMPACT EXHIBIT + PROTECTION PLAN (2 SHEETS)

Appendix C

Energy Data

Forthcoming

Appendix D

Geotechnical Study

November 13, 2020
Kleinfelder Project No.: 20203313.001A

MG2
1101 Second Ave, Ste 100
Seattle, Washington 98101

Attention: Mr. Matthew Goelzer AIA, LEED AP

Subject: Geotechnical Study
Proposed DAX9 Warehouse Improvements
1211 Badillo Street
West Covina, California

Dear Mr. Goelzer:

Kleinfelder is pleased to present this report summarizing our geotechnical study for the proposed DAX9 Warehouse Improvements project located at 1211 Badillo Street in West Covina, California. The purpose of our study was to evaluate subsurface conditions at the project site to provide design and construction recommendations for the proposed improvements. The conclusions and recommendations presented in this report are subject to the limitations presented in Section 5.

We appreciate the opportunity to provide geotechnical engineering services to you on this project. If you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned at (949) 727-4466.

Respectfully submitted,

KLEINFELDER

Zachary S. Jarecki, PE
Project Engineer

Brian E. Crystal, PE, GE
Senior Project Manager

Copyright 2020 Kleinfelder

24411 Ridge Route Dr., Suite 225, Laguna Hills, CA 92653 p | 949.727.4466 f | 949.727.9242

GEOTECHNICAL STUDY
PROPOSED DAX9 WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

KLEINFELDER PROJECT NO. 20203313.001A

NOVEMBER 13, 2020

Copyright 2020 Kleinfelder
All Rights Reserved

ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.

Copyright 2020 Kleinfelder

A Report Prepared for:

MG2
1101 Second Ave, Ste 100
Seattle, Washington 98101

Attention: Mr. Matthew Goelzer AIA, LEED AP

GEOTECHNICAL STUDY
PROPOSED DAX9 WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA



Zachary S. Jarecki, PE
Project Engineer



Brian E. Crystal, PE, GE
Senior Project Manager

KLEINFELDER
24411 Ridge Route Drive, Suite 225
Laguna Hills, California 92653
Phone: 949.727.4466
Fax: 949.727.9242

November 13, 2020
Kleinfelder Project No. 20203313.001A

Copyright 2020 Kleinfelder

TABLE OF CONTENTS

Section			Page
1	**INTRODUCTION**		**1**
	1.1	PROJECT DESCRIPTION	1
	1.2	SCOPE OF SERVICES	1
		1.2.1 Task 1 – Background Data Review	1
		1.2.2 Task 2 – Field Exploration and Infiltration Testing	2
		1.2.3 Task 3 – Laboratory Testing	2
		1.2.4 Task 4 – Visual Pavement Condition Assessment	3
		1.2.5 Task 5 – Geotechnical Analyses and Report Preparation	3
2	**SITE AND SUBSURFACE CONDITIONS**		**5**
	2.1	SITE DESCRIPTION	5
	2.2	VISUAL PAVEMENT ASSESSMENT	5
		2.2.1 Pavement Condition	5
		2.2.2 Existing Pavement Thicknesses	6
	2.3	SUBSURFACE CONDITIONS	6
3	**CONCLUSIONS AND RECOMMENDATIONS**		**8**
	3.1	GENERAL	8
	3.2	FOUNDATIONS	8
		3.2.1 General	8
		3.2.2 Spread Footing Foundations	8
		3.2.3 Short Drilled Piles	9
	3.3	SEISMIC DESIGN	10
		3.3.1 2019 CBC Seismic Design Parameters	10
		3.3.2 Liquefaction and Seismic Settlement	11
	3.4	PAVEMENT REHABILITATION AND NEW PAVEMENT SECTIONS	12
		3.4.1 General	12
		3.4.2 Heavy-Duty Pavement (TI of 10.0 based on Client Design Criteria)	12
		3.4.3 Medium-Duty Pavement (Assumed TI of 6.5)	13
		3.4.4 New Light-Duty Pavement (Assumed TI of 4.5)	13
		3.4.5 Asphalt Concrete Materials	13
		3.4.6 Aggregate Base	14
		3.4.7 Construction Considerations	14
	3.5	EARTHWORK	14
		3.5.1 General	14
		3.5.2 Site Preparation	15
		3.5.3 Unstable Subgrade Conditions	15
		3.5.4 Foundation Excavations	16
		3.5.5 Structural Fill Material and Compaction Criteria	17
		3.5.6 Excavation Characteristics	18
		3.5.7 Temporary Excavations	18
	3.6	RETAINING WALL	19
		3.6.1 General	19
		3.6.2 Lateral Earth Pressures	19
		3.6.3 Drainage	20
	3.7	STORM WATER MANAGEMENT	21
	3.8	SOIL CORROSION	24

Copyright 2020 Kleinfelder

Section **Page**

4 ADDITIONAL SERVICES 25
4.1 PLANS AND SPECIFICATIONS REVIEW 25
4.2 CONSTRUCTION OBSERVATION AND TESTING 25
5 LIMITATIONS 26
6 REFERENCES 28

FIGURES

Figure 1 Site Vicinity Map
Figure 2 Exploration Location Map
Figure 3 PASER Map
Figure 4 Photo Location Map

APPENDICES

Appendix A Field Explorations
Appendix B Laboratory Testing
Appendix C Photo Log
Appendix D Infiltration Test Results

Copyright 2020 Kleinfelder

1 INTRODUCTION

This report presents the results of our geotechnical study for the proposed DAX9 Warehouse Improvements project located at 1211 Badillo Street in West Covina, California. The location of the project site is presented on Figure 1, Site Vicinity Map. The purpose of our study is to evaluate surface conditions at the project site to provide design and construction recommendations for the proposed improvements. The scope of our services was presented in our proposal titled "Proposal for Geotechnical Services, Proposed DAX9 Warehouse Improvements, 1211 Badillo Street, West Covina, California," dated January 15, 2020.

Our report includes a description of the work performed, a discussion of the subsurface and surficial conditions observed at the site, and recommendations developed from our engineering analyses of field and laboratory data.

1.1 PROJECT DESCRIPTION

We understand that the existing warehouse facility located at 1211 Badillo Street in West Covina, California will be improved/retrofitted for a new distribution center. Significant structural improvements to the existing warehouse building are not currently planned; however, new building openings and exterior canopies will be constructed. Exterior improvements around the existing warehouse will be limited primarily to reconstructing the pavement. The proposed improvements are shown on Figure 2, Exploration Location Map.

1.2 SCOPE OF SERVICES

The scope of our limited geotechnical study consisted of a literature review, field explorations, pavement condition assessment, infiltration testing, laboratory testing, engineering evaluation and analysis, and preparation of this report. Studies to assess environmental hazards that may affect the soil and groundwater at the site were beyond our geotechnical scope of work. A description of our scope of services performed for the geotechnical portion of the project follows.

1.2.1 Task 1 – Background Data Review

We reviewed readily available published and unpublished geologic literature in our files and the files of public agencies, including selected publications prepared by the California Geological Survey (formerly known as the California Division of Mines and Geology) and the U.S. Geological Survey (USGS). We also reviewed readily available seismic and faulting

Copyright 2020 Kleinfelder

information, including data for designated earthquake fault zones as well as our in-house database of faulting in the general site vicinity.

1.2.2 Task 2 – Field Exploration and Infiltration Testing

Subsurface conditions at the site were explored by excavating five (5) borings to depths of approximately 5 to 51½ feet below the existing ground surface (bgs). We also performed four (4) borehole infiltration tests in borings drilled to depths of approximately 15 feet bgs. Infiltration testing was performed using the boring percolation test procedure in accordance with the County of Los Angeles Department of Public Works Administrative Manual GS200.2, Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, dated June 30, 2017. The site location and approximate boring and infiltration test locations are shown on Figure 2.

Prior to commencement of the fieldwork, various geophysical techniques were used at the boring locations to identify potential conflicts with subsurface structures. Each of our proposed field exploration locations were also cleared for buried utilities through Underground Service Alert (USA).

A Kleinfelder staff professional supervised the field operations and logged the explorations. Selected bulk and drive samples were retrieved, placed in plastic bags and containers, and transported to our laboratory for further evaluation. The number of blows necessary to drive the California and Standard Penetration Test (SPT) sampler was recorded. Appendix A presents a description of the field exploration program, exploration logs, and a legend of terms and symbols used on the logs. Soil descriptions used on the logs result from field observations and data, as well as from laboratory test data. Stratification lines on the logs represent the approximate boundary between soil and/or rock types, and the actual transition may vary and can be gradual.

1.2.3 Task 3 – Laboratory Testing

Laboratory testing was performed on representative samples to substantiate field classifications and to provide engineering parameters for geotechnical design. Laboratory testing consisted of moisture content and dry density testing, percent passing the No. 200 sieve, Atterberg limits, sieve analyses, hydrometer, maximum density and optimum moisture content, R-Value, and preliminary corrosion testing. The results are presented in Appendix B.

Copyright 2020 Kleinfelder

1.2.4 Task 4 – Visual Pavement Condition Assessment

A visual assessment was performed to evaluate existing pavements at the site. A field reconnaissance was conducted by a Kleinfelder professional to observe and document the existing pavement conditions using the Pavement Surface Evaluation and Rating (PASER) methodology. Figure 3 presents the PASER ratings map. Site photographs are presented in Appendix C and the approximate photo locations are shown on Figure 4.

1.2.5 Task 5 – Geotechnical Analyses and Report Preparation

Field and laboratory data were analyzed in conjunction with our understanding of the project to provide geotechnical recommendations for the design and construction. We have provided recommendations for the design and construction for the proposed warehouse improvements, pavement rehabilitation/reconstruction, and proposed stormwater management facilities.

This report summarizes the work performed, data acquired, and our findings, conclusions, and geotechnical recommendations for the design and construction of the proposed improvements. Our report includes the following items:

- Vicinity map and site plan showing the approximate field exploration locations;
- Logs of the borings and infiltration tests (Appendix A);
- Results of laboratory tests (Appendix B);
- A field reconnaissance to observe and photo-document the existing condition of pavements using the Pavement Surface Evaluation and Rating (PASER) system (Appendix C);
- Discussion of general site conditions;
- Discussion of general subsurface conditions as encountered in our field exploration, including depth to groundwater (if encountered);
- Recommendations for foundation design (spread footings and drilled piles), allowable bearing capacities, embedment depths, and settlement estimates under various loading conditions;
- Recommendations for seismic design parameters in accordance with the 2019 California Building Codes (CBC);
- Assessment of the current pavement conditions and recommendations for flexible and rigid pavement structural sections based on estimated Traffic Indices (TIs) from provided traffic loading;

Copyright 2020 Kleinfelder

- Recommendations for site preparation, earthwork, temporary slope inclinations, fill placement, and compaction specifications;
- Recommendations for the excavation of subsurface soil deposits; and
- Results of the infiltration testing and recommendations for long-term design infiltration rates (Appendix D).

Copyright 2020 Kleinfelder

2 SITE AND SUBSURFACE CONDITIONS

2.1 SITE DESCRIPTION

The site is bounded by San Bernardino Road to the north, residential properties to the east, Badillo Street to the south, and a commercial development to the west. The site is currently developed and occupied by one large warehouse building surrounded by asphalt and concrete pavement. The site is relatively flat with drainage achieved primarily by sheet flow over the existing pavement.

2.2 VISUAL PAVEMENT ASSESSMENT

2.2.1 Pavement Condition

A Kleinfelder professional visited the site on January 22 and February 22, 2020 to observe site pavement conditions and check for visual signs of distress or movement indicative of settlement, expansive soils, or poor compaction. Based on our site reconnaissance, we observed signs of varying amounts of pavement distress depending on the location throughout the site. In general, the pavement appears to be in poor to fair condition, with some areas in good condition. Pictures showing the pavement distress are presented in the photograph log in Appendix C.

The asphalt concrete (AC) pavement condition varies across the site with some isolated areas that are in failed condition (PASER rating of 3) near the western boundary of the site. The majority of the AC pavement is in fair condition with a PASER rating of 4 or 5. In a few areas the pavement is in good condition with a PASER rating of 5 to 6, such as the eastern boundary of the site and the parking area in the southeast corner. Figure 3 shows pavement conditions and PASER ratings.

In AC areas with PASER ratings of 3, pavement distress generally consisted of alligator cracking, isolated potholes, and loss of surface integrity. In AC areas with PASER ratings of 4 or 5, the pavement distress generally consisted of widespread longitudinal and transverse cracks with widths greater than ½ inch and block cracking over more than 50 percent of the surface. In a few areas with a PASER rating of 5 to 6, the pavement distress consisted of longitudinal and transverse cracking that was less prevalent.

Copyright 2020 Kleinfelder

2.2.2 Existing Pavement Thicknesses

The existing pavement thickness was measured in the borings. Asphalt concrete was observed to overlie aggregate base material. Approximate asphalt concrete and aggregate base course thicknesses (measured to the nearest ½ inch) are summarized in Table 1.

Table 1
Existing Pavement Section Thicknesses

Location	Approximate Asphalt Concrete Thickness (inches)	Approximate Aggregate Base Thickness (inches)
B-1	3	4
B-2	3	4
B-3	4	No base observed
B-4	4	6½
B-5	2½	10
INF-1	3	5
INF-2	3	4
INF-3	3	9
INF-4	2½	8

2.3 SUBSURFACE CONDITIONS

The subsurface conditions at the site generally consist of artificial fill over alluvial soils. The artificial fill soils generally consist of silty to clayey sand with varying amounts of gravel and were observed to be approximately 1½ to 4 feet thick in our borings. Alluvial soils underlie the artificial fill and generally consist of medium dense to very dense silty sand, clayey sand, and poorly graded sand with silt and gravel. Additionally, two of the borings (Boring B-5 and INF-3) encountered a sandy lean clay layer at approximately 4 feet bgs with a thickness of approximately 2 and 4½ feet respectively. Detailed descriptions of the soils are provided in our boring logs presented in Appendix A.

Groundwater was not observed in any of our borings drilled to a maximum depth of 51½ feet bgs. Historic high groundwater levels in the area have been at depths greater than 100 feet below grade (CDMG, 1998). However, localized zones of perched water, and increased soil

Copyright 2020 Kleinfelder

moisture content should be anticipated during and following rainy seasons. Irrigation of landscaped areas on or adjacent to the site can also cause perched water and increased soil moisture content.

Copyright 2020 Kleinfelder

3 CONCLUSIONS AND RECOMMENDATIONS

3.1 GENERAL

Based on the results of the field explorations, laboratory testing and our engineering analyses conducted during this study, it is our professional opinion that the proposed project is geotechnically feasible, provided the recommendations presented in this report are incorporated into the project design and construction. The following opinions, conclusions, and recommendations are based on the properties of the materials encountered in the borings, the results of the laboratory-testing program, and our engineering analyses performed. Our recommendations regarding the geotechnical aspects of the design and construction of the project are presented in the following sections.

3.2 FOUNDATIONS

3.2.1 General

Based on our understanding of the project, significant structural improvements of the existing warehouse buildings are not currently planned; however, new building openings and exterior canopies will be constructed. Recommendations for spread footing foundations for building improvements are presented below. New canopies and light poles may be founded on spread footing or short drilled piles. Recommendations for short drilled piles are also presented below.

3.2.2 Spread Footing Foundations

Allowable Bearing Pressure

Footings for building improvements may be designed for a net allowable bearing pressure of 2,000 pounds per square foot (psf) for dead plus sustained live loads. A reduced allowable bearing value has been provided to limit differential static settlement, which may be abrupt between the existing warehouse and proposed improvements. Footings for exterior canopies may be designed for a net allowable bearing pressure of 3,000 pounds per square foot (psf) for dead plus sustained live loads. A one-third increase in the bearing value can be used for wind or seismic loads. All footings should be established at a depth of at least 24 inches below the lowest adjacent grade. The footing dimension and reinforcement should be designed by the structural engineer.

Copyright 2020 Kleinfelder

Estimated Settlements

We estimate that total static settlement for footings designed in accordance with the recommendations presented above should be on the order ½ inch or less, depending on the size of the footing and applied load.

Lateral Resistance

Lateral load resistance may be derived from passive resistance along the vertical sides of the footings, friction acting at the base of the footings, or a combination of the two. An allowable passive earth pressure of 300 psf per foot of depth may be used for design. Allowable passive earth pressure values should not exceed 3,000 psf. An ultimate coefficient of friction value of 0.40 between the base of the footings, or slabs founded on grade, and the existing soils can be used for sliding resistance using the dead load forces. Friction and passive resistance may be combined without reduction.

3.2.3 Short Drilled Piles

Axial Capacity

The downward axial capacity of drilled piles may be computed based on an allowable skin friction capacity of 200 pounds per square foot. The upper one foot of the drilled piers should be neglected when computing the axial capacity of the pile. The upward capacity may be taken as one-half the downward allowable axial capacity. A one-third increase in the allowable capacities may be used for wind or seismic loads.

Lateral Loads

For computing the lateral resistance, drilled pier foundations can be designed in general accordance with Section 1807.3 of the California Building Code (CBC). We recommend an allowable lateral soil bearing pressure of 300 psf per foot of depth below grade. The allowable lateral soil bearing pressure should not exceed 3,000 psf. Since drilled piles are isolated pole foundations, the allowable lateral soil bearing pressure may be increased by a factor of 2 for short-term lateral loads provided the structure will not be adversely affected by ½ inch of movement at the ground surface.

Copyright 2020 Kleinfelder

Settlement

Settlement of the proposed foundation supported on drilled piles, as recommended, is estimated to be less than ½ inch. This value does not include elastic compression of the piles under design loads.

3.3 SEISMIC DESIGN

3.3.1 2019 CBC Seismic Design Parameters

Based on information obtained from the investigation, published geologic literature and maps, and on our interpretation of the ASCE/SEI 7-16 criteria, it is our opinion that the project site may be classified as Site Class D, Stiff Soil. Approximate coordinates for the site are noted below.

- Latitude: 34.0878° N
- Longitude: -117.9205° W

In accordance with Section 11.4.8 of ASCE 7-16, a site-specific ground motion analysis is required for Site Class D sites with an S_1 greater than 0.2 g. However, a site-specific ground motion analysis is not required if the seismic response coefficient (C_s) is determined in accordance with requirements of Chapter 12 and exceptions as noted in Section 11.4.8. The assumption that C_s may be determined in accordance with the requirements of Chapter 12 and exceptions as noted in Section 11.4.8 will be used should be verified by the project structural engineer during final design. The ASCE 7-16 Seismic Design Parameters (non site-specific) for these structures are summarized in Table 2.

Copyright 2020 Kleinfelder

Table 2
2019 CBC Seismic Design Parameters

Design Parameter	Recommended Value
Site Class	D
S_s (g)	1.655
S_1 (g)	0.612
F_a	1.0
F_v	N/A *
PGA	0.701
S_{MS} (g)	1.655
S_{M1} (g)	N/A *
S_{DS} (g)	1.103
S_{D1} (g)	N/A
PGA_M (g)	0.771

* N/A = Not Applicable; Section 11.4.8 of ASCE 7-16 requires a site-specific ground motion hazard analysis be performed for Site Class D sites with S_1 values greater than or equal to 0.2g unless exceptions are taken. If exceptions are taken, then a F_v value of 1.7 could be used only to calculate the T_s value.

3.3.2 Liquefaction and Seismic Settlement

The term liquefaction describes a phenomenon in which saturated, cohesionless or very low plasticity soils temporarily lose shear strength (liquefy) due to increased pore water pressures induced by strong, cyclic ground motions during an earthquake. Structures founded on or above potentially liquefiable soils may experience bearing capacity failures due to the temporary loss of foundation support, vertical settlements (both total and differential), and/or undergo lateral spreading. The factors known to influence liquefaction potential include age, soil type, relative density, grain size, plasticity, confining pressure, depth to groundwater, and the intensity and duration of the seismic ground shaking. Liquefaction is most prevalent in young loose to medium dense, non-plastic coarse-grained soils.

The site is not located within a state designated liquefaction hazard zone (CGS, 1999). Additionally, the historic high groundwater is estimated to be greater than 100 feet bgs (CDMG, 1998). Based on the density of the granular soils encountered and lack of groundwater within the upper 50 feet bgs, it is our opinion that the potential for liquefaction and seismically induced settlement is not considered a hazard at the site.

Copyright 2020 Kleinfelder

Seismic compression results from the accumulation of contractive volumetric strains in unsaturated soil during earthquake shaking. Loose to medium dense granular material with no fines or with low plasticity fines are most susceptible to seismic compression. Based on the density and soil composition of the underlying soils, seismic compression (dynamic dry settlement) is estimated to be up to 1½ inches total with differential settlements up to 1 inch over 50 feet.

3.4 PAVEMENT REHABILITATION AND NEW PAVEMENT SECTIONS

3.4.1 General

Based on the client's development guidelines, Version 2.02, dated July 30, 2020, we understand that heavy-duty pavements may be subjected to 200 trucks per day (in and out). However, pavements subjected to delivery van traffic only do not need to be designed for same heavy traffic loads as trucks. Accordingly, we have provided a medium-duty pavement section for areas subjected to traffic loads primarily from delivery vans.

Based on our visual pavement condition, the majority of the pavement is in fair condition with some isolated areas that are in poor to failing condition. However, the existing AC pavement sections are relatively thin and are only considered adequate for associate parking areas. Because the existing AC pavement sections are relatively thin, rehabilitation using mill and overlay techniques is not considered feasible. Accordingly, we recommend full depth reconstruction of the AC pavement sections subject to both truck and van traffic loading. In areas subject to van loading only, the existing aggregate base may be left in place and reused.

Further discussions of our recommendations are presented below. Subgrade preparation recommendations are provided in Section 3.5.2.

3.4.2 Heavy-Duty Pavement (TI of 10.0 based on Client Design Criteria)

As discussed above, the current AC pavement sections are not adequate for heavy traffic loading and we recommend full-depth reconstruction of the pavement sections for truck traffic. We have based our pavement design for heavy-duty pavement based on 200 trucks per day with a typical weight of 75,000 pounds and 15-year design life in accordance with the client's design criteria. New AC pavement sections in heavy truck traffic areas should consist of 5.0 inches of AC over 9.5 inches of aggregate base (AB) or 6.0 inches of AC over 8.0 inches of AB.

Copyright 2020 Kleinfelder

New PCC pavement should be comprised of 8.0 inches of concrete pavement over 6.0 inches of aggregate base. Longitudinal and transverse joint spacing for concrete pavements should not exceed 12 feet and 15 feet, respectively. Joint details should conform to the Portland Cement Association (PCA) guidelines. Concrete should have a minimum compressive strength ($f`_c$) of 4,000 psi for areas subject to vehicle traffic. Expansion joints in concrete slabs should be sealed with petroleum resistant sealant to prevent minor releases from impacting subsurface soil.

3.4.3 Medium-Duty Pavement (Assumed TI of 6.5)

Pavements subjected to traffic loads from delivery vans only may be designed for a medium-duty pavement section. Similar to the heavy-duty pavement, the existing AC pavement are not considered adequate for traffic from delivery vans, and therefore recommend full depth reconstruction of the pavements in areas subject to delivery vans. We recommend that new AC pavement sections in medium-duty traffic areas consist of 4.0 inches of AC over 4.0 inches of AB.

The existing AB may be left in place and re-used. The existing AC should be removed and replaced with 4.0 inches of new AC. Prior to placing new AC, the existing AB should be proof-rolled with heavy construction equipment (e.g., loader or smooth-drum roller) to disclose areas of soft and yielding material. In areas where soft and yielding material is observed, the existing AB should be removed, and the subgrade should be stabilized. If subgrade stabilization is needed, the new AB section should be at least 4.0 inches thick.

3.4.4 New Light-Duty Pavement (Assumed TI of 4.5)

The existing pavement sections are considered adequate for associate parking areas only. For AC areas with a PASER rating greater than 4, we recommend that the existing cracks be cleaned and sealed, and a seal coat be applied over the asphalt pavement. However, in areas where the pavement is in poor to fair condition (PASER rating of 4 or less), we recommend full-depth reconstruction of pavement as the pavement has likely reached the end of its design life and needs to be replaced. For pavements subjected to automobile/associate parking only (light-duty) pavement, we recommend that new AC pavement sections consist of at least 3.0 inches of AC over 4.0 inches of AB.

3.4.5 Asphalt Concrete Materials

We recommend that asphalt concrete materials meet the 2010 (or latest) Caltrans specifications for ½-inch Type A, or the specifications for Type III Class C2 for Hot Mix Asphalt (HMA) as

Copyright 2020 Kleinfelder

defined in Section 203-6 in the Standard Specifications for Public Works Construction (Greenbook). Asphalt paving materials and placement methods should meet current Caltrans specifications for asphalt concrete or Section 400 of the current edition of the Greenbook. Positive drainage of the paved areas should be provided since moisture infiltration into the subgrade may decrease the life of pavements.

3.4.6 Aggregate Base

Aggregate base material should meet the current Caltrans specifications for Class 2 aggregate base. Alternatively, the aggregate base course could meet the specifications for untreated base materials (crushed aggregate base or crushed miscellaneous base) as defined in Section 200-2 of the current edition of the Standard Specifications for Public Works Construction (Greenbook).

3.4.7 Construction Considerations

The pavement sections provided above are contingent on the following recommendations being implemented during construction.

- The subgrade should be prepared in accordance with the recommendations in Section 3.5.2.
- Aggregate base should be compacted to at least 95 percent of the soil's maximum dry unit weight (ASTM D1557). Moisture contents should be maintained near optimum during compaction.
- Subgrade soils should be in a stable, non-pumping condition at the time the aggregate base materials are placed and compacted.
- Asphalt paving materials and placement methods should meet current applicable code specifications.
- Adequate drainage (both surface and subsurface) should be provided such that the subgrade soils and aggregate base materials are not allowed to become wet.

3.5 EARTHWORK

3.5.1 General

Site preparation and earthwork operations should be performed in accordance with applicable codes, safety regulations and other local, state or federal specifications, and the recommendations included in this report. References to maximum dry unit weights are established in accordance with the latest version of ASTM Standard Test Method D1557

Copyright 2020 Kleinfelder

(modified Proctor). The earthwork operations should be observed and tested by a representative of Kleinfelder.

3.5.2 Site Preparation

Pavement, planters, abandoned utilities, foundations, and other existing improvements within the proposed improvement areas should be removed and the excavation(s) backfilled with engineered fill. Debris produced by demolition operations, including wood, steel, piping, plastics, etc., should be separated and disposed of off-site. Existing utility pipelines or conduits that extend beyond the limits of the proposed construction and are to be abandoned in place, should be plugged with non-shrinking cement grout to prevent migration of soil and/or water. Demolition, disposal and grading operations should be observed and tested by a representative of the geotechnical engineer. Areas to receive fill should be stripped of all dry, loose or soft earth materials and undocumented fill materials to the satisfaction of the geotechnical engineer.

After the area has been stripped of soft earth materials and debris, we recommend that the exposed subgrade be proof-rolled with heavy construction equipment (e.g. loader or smooth-drum roller) to disclose areas of soft and yielding material. Where soft and yielding material is observed, it should be overexcavated and replaced as structural fill. After proof-rolling and/or prior to placement of fill, the subgrade should be scarified to a depth of 6 to 8 inches, moisture conditioned, and compacted to at least 95 percent of the maximum dry unit weight. The proof-rolling should extend beyond the proposed improvements a horizontal distance of at least 2 feet.

It is also common to encounter wet, unstable soils upon removal of site pavements or flatwork as a result of subsurface moisture becoming trapped beneath relatively impervious asphalt concrete or Portland cement concrete surfaces. Pumping/wet subgrade conditions are likely to be encountered and the subgrade will likely need to be stabilized. The contractor should be prepared to stabilize the subgrade prior to the start of grading activities so that significant delays in construction do not occur. The contractor should also provide unit pricing for stabilizing subgrade at the time of the bid. Subgrade stabilization options are provided below.

3.5.3 Unstable Subgrade Conditions

As discussed above, it is common to encounter wet, unstable soils upon removal of site pavements or flatwork as a result of moisture becoming trapped beneath relatively impervious surfaces. Additionally, should grading be performed during or following periods of rainfall, the

Copyright 2020 Kleinfelder

moisture content of the near-surface soils may be significantly above the optimum moisture content. Typical remedial measures include the following:

- Drying: Drying unstable subgrade involves disking or ripping wet subgrade to a depth of approximately 18 to 24 inches and allowing the exposed soil to dry. Multiple passes of the equipment (likely on a daily basis) will be needed because as the surface of the soil dries, a crust forms that reduces further evaporation. Frequent disking will help prevent the formation of a crust and will promote drying. This process could take several days to several weeks depending on the depth of ripping, the number of passes, and the weather.
- Removal and Replacement with Crushed Rock and Geotextile Fabric: Unstable subgrade could be over-excavated 12 to 24 inches below existing grade and replaced with ¾- or 1-inch crushed rock underlain and/or wrapped by geotextile fabric. The geotextile fabric should consist of a woven geotextile, such as Mirafi HP series or equivalent. The final depth of removal will depend upon the conditions observed in the field once overexcavation begins. The geotextile fabric should be placed in accordance with the manufacturer's recommendations.
- Cement Treatment: Unstable subgrade could be stabilized by mixing the upper 12 to 18 inches of the subgrade with Portland cement or Class C flyash. For estimating purposes, an application rate of 10 to 12 percent Class C flyash or 4 to 5 percent Portland cement may be used. Final application rates should be determined in the field at the time of construction in consultation with the geotechnical engineer. Cement treatment should be performed by a specialty contractor experienced in this work. Since cement treatment uses the on-site soil, the expense of importing material can be avoided.

3.5.4 Foundation Excavations

Spread Footings

Following excavation to the foundation subgrade elevations, the exposed subgrade should be observed by a representative of the geotechnical engineer to evaluate the presence of satisfactory materials at design elevations. If unsatisfactory material, such as soft or disturbed soil, debris or otherwise unsuitable soil is present at the base of footing excavations, the unsuitable materials should be overexcavated and replaced with structural concrete, 2-sack sand-cement slurry, or structural fill to the depth and extent determined by the geotechnical

Copyright 2020 Kleinfelder

engineer. As a minimum, the contractor should be prepared to scarify, moisture condition, and re-compact the upper 12 inches of footing subgrade.

Drilled Piles

The performance and capacities of piles can be influenced significantly by the selected construction methods and procedures used. Construction methods that create large zones of disturbance around the drilled shafts can lead to lower than expected skin friction due to excessive stress relief around the shaft length. Drilling of the pile shafts should be accomplished using heavy-duty excavation equipment.

Sandy soils may cave during drilling of the pile shafts and temporary steel casing may be needed to stabilize the sides of the pile shaft. Concrete should be placed immediately after drilling of the hole is complete. The concrete should be pumped to the bottom of the drilled shaft using a down-hole tremie. If steel casing is used, the casing should be removed as the concrete is placed but the bottom of the casing should be kept at least 5 feet below the top of the concrete.

3.5.5 Structural Fill Material and Compaction Criteria

Materials placed below pavements or structures should be structural fill. The on-site soils, minus debris, organic matter, or other deleterious materials may be used as structural fill. Rock or other soil fragments greater than 3 inches in size should not be used in the fills and disposed of off-site.

Structural fill soils should be compacted to at least 95 percent of the maximum dry unit weight (ASTM D1557). The moisture content of the fill should be maintained near optimum moisture contend during compaction. Processing (moisture reduction) of on-site soil may be required prior to placement as structural fill. Processing may require ripping the material, disking to break up clumps, and blending to attain uniform moisture contents necessary for compaction.

Fill should be placed in loose horizontal lifts not more than 8 inches thick (loose measurement). Utility trench backfill should be mechanically compacted. Flooding should not be permitted. If both criteria (minimum compaction and moisture content) are not within the specified tolerances, the fill should not be accepted, and the contractor should rework the material until the fill is placed within the specified tolerances.

Copyright 2020 Kleinfelder

Imported fill, if needed, should consist of granular soils with at least 70 percent passing the No. 4 sieve and no more than 30 percent passing the No. 200 sieve with soil and rock particles no larger than 3 inches in diameter. The Expansion Index (EI) of material should be less than 20. Imported fill materials must be approved by the geotechnical engineer prior to importing. The contractor should provide documentation that imported fill is free of hazardous materials, including petroleum or petroleum byproducts, chemicals and harmful minerals. Also, prior to placing fill, the excavations should be observed by the geotechnical engineer to observe that all unsuitable materials have been removed and that the exposed soils are in a firm, unyielding condition.

3.5.6 Excavation Characteristics

The upper soils consist predominantly of silty to clayey sand with varying amounts of gravel. It is anticipated that conventional heavy-duty earthmoving equipment maintained in good condition should be capable of excavating the anticipated materials.

3.5.7 Temporary Excavations

All excavations must comply with applicable local, state, and federal safety regulations, including OSHA requirements. The responsibility for excavation safety and stability of temporary construction slopes lies solely with the contractor. We are providing this information below solely as a service to our client. Under no circumstances should this information provided be interpreted to mean that Kleinfelder is assuming responsibility for final engineering of excavations or shoring, construction site safety, or the contractors' activities; such responsibility is not being implied and should not be inferred.

Minor sloughing and/or raveling of slopes should be anticipated as they dry out. Where space for sloped embankments is not available, shoring will be necessary. In addition, excavations within a 1:1 plane extending downward from a horizontal distance of 2 feet beyond the bottom outer edge of existing improvements should not be attempted without bracing and/or underpinning the footings, as discussed above. The geotechnical engineer or their field representative should observe the excavations so that modifications can be made to the excavations, as necessary, based on variations in the encountered soil conditions. All applicable excavation safety requirements and regulations, including OSHA requirements, should be met.

All trench excavations should be braced and shored in accordance with good construction practice and all applicable safety ordinances and codes. Stockpiled (excavated) materials

Copyright 2020 Kleinfelder

should be placed no closer to the edge of an excavation than a distance equal to the depth of the excavation, but no closer than 4 feet.

3.6 RETAINING WALL

3.6.1 General

As part of the proposed improvements, we understand that cast-in-place cantilever-type retaining wall (approximately 4 feet tall) will be constructed to provide ramps for a proposed loading dock on the west side of the building. Recommendations for design of retaining walls are presented in the following section.

3.6.2 Lateral Earth Pressures

Design earth pressures for retaining structures depend primarily on the allowable wall movement, wall inclination, type of backfill materials, backfill slopes, surcharges, and drainage. Earth pressures provided assume that the onsite granular (sandy) soils will used as backfill. Import backfill, if needed, should met the requirements for imported fill as defined in Section 3.5.5. The onsite soils are anticipated to meet this requirement. For design purposes, a soil density of 120 pcf should be assumed for retaining wall backfill.

If a drainage system is not installed, the wall should be designed to resist hydrostatic pressure in addition to the earth pressure. Determination of whether the active or at-rest condition is appropriate for design will depend on the flexibility of the walls. Walls that are free to rotate at least 0.002 radians (deflection at the top of the wall of at least 0.002 x H, where H is the unbalanced wall height) may be designed for the active condition. Walls that are not capable of this movement should be assumed rigid and designed for the at-rest condition. The recommended active and at-rest earth pressures and passive resistance values are provided in Table 3.

Copyright 2020 Kleinfelder

Table 3
Lateral Earth Pressures for Earth Retaining Structures
(Granular Backfill – Import or Onsite Granular Soils)

Wall Movement	Backfill Condition	Equivalent Fluid Pressure (pcf)	Seismic Increment * (pcf)
Free to Deflect (active condition)	Level	40	23
Restrained (at-rest condition)		60	N/A**

*Note: * Walls supporting more than 6 feet of backfill should be designed to support an incremental seismic lateral pressure, which is applied as a triangular pressure distribution with a maximum pressure at the bottom of the wall, similar to the active lateral earth pressure.*

*** for restrained walls, use the static active earth pressure plus the seismic increment to check the seismic condition; use at-rest earth pressure only to check the static condition; the larger loading of both cases should be used for the design of restrained wall.*

The above lateral earth pressures do not include the effects of surcharges (e.g., traffic, footings), compaction, or truck-induced wall pressures. Any surcharge (live, including traffic, or dead load) located within a 1:1 (horizontal to vertical) plane drawn upward from the base of the excavation should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load located immediately behind walls with a level backfill condition may be calculated by multiplying the surcharge by 0.33 for cantilevered walls under active conditions and 0.50 for restrained walls under at-rest conditions. Walls adjacent to areas subject to vehicular traffic should be designed for a 2-foot equivalent vertical soil surcharge (250 psf). Lateral load contributions from other surcharges located behind walls may be provided once the load configurations and layouts are known.

3.6.3 Drainage

Walls should be properly drained or designed to resist hydrostatic pressures. Adequate drainage is essential to provide a free-drained backfill condition so that there is no hydrostatic buildup behind the wall. Walls should also be appropriately waterproofed to reduce the potential for staining. Drainage behind loading dock walls can consist of weep holes placed along the base of the wall. Weep holes should be spaced 10 to 15 feet apart and connected with a gravel drain consisting of approximately 2 cubic feet of clean gravel per foot of wall length wrapped with filter fabric. Other types of retaining walls should have a continuous back drain as described below.

For backfill of walls with a continuous back drain, except for the upper 2 feet, the backfill immediately behind retaining walls (minimum horizontal distance of 2 feet measured

Copyright 2020 Kleinfelder

perpendicular to the wall) should consist of free-draining ¾-inch crushed rock wrapped with filter fabric. The upper 2 feet of cover backfill should consist of relatively impervious material. A 4-inch-diameter perforated PVC pipe, placed perforations down at the bottom of the rock layer leading to a suitable gravity outlet, should be installed at the base of the walls.

As an alternative to the gravel drain noted above, a manufactured drain panel may be utilized behind retaining walls in addition to normal waterproofing. This system generally consists of a prefabricated drain panel lined with filter fabric. At the wall base, we recommend that a gravel drain be installed to collect and discharge drainage to a suitable outlet. The drain should consist of a 4-inch-diameter perforated PVC pipe, placed perforations down at the bottom of approximately 2 cubic feet of clean gravel per foot of wall length. The gravel drain should be wrapped in filter fabric (Mirafi 140N or equivalent). The pipe should be sloped to drain to a suitable outlet and cleanouts should be provided at appropriate intervals.

If drainage behind the wall is omitted, the wall should be designed for full hydrostatic pressure. The design of any drain system should be submitted to Kleinfelder for review to check that our recommendations have been properly incorporated into the design. Installation of the drainage system should be reviewed and documented by a Kleinfelder representative.

3.7 STORM WATER MANAGEMENT

We understand that as part of the storm water management for the project, Infiltration Best Management Practices (BMPs), are being considered. We performed four falling-head borehole infiltration tests in general accordance with the County of Los Angeles Department of Public Works Administrative Manual GS200.2, Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, dated June 30, 2017. We also performed sieve analysis and hydrometer testing to assess the grain-size characteristics of the onsite soils. The results of the laboratory testing are presented in Appendix B and the results of the infiltration testing is presented in Appendix D.

Based on visual soil classification and laboratory testing of the soil samples collected during our field exploration, the upper approximately 15 feet of the subsurface soils consist of medium dense silty sand, clayey sand, and poorly graded sand with varying amounts of silt and gravel. Additionally, two of our borings (B-5 and INF-3) encountered a sandy lean clay layer at approximately 4 feet bgs with a thickness of approximately 2 and 4½ feet respectively. The fines content of the upper sandy soil ranges from approximately 9 to 24 percent. Table 4 summarizes the unfactored average measured in-situ percolation rate.

Copyright 2020 Kleinfelder

Table 4
Summary of Unfactored Average Measured Percolation Rates

Infiltration Test Location	Tested Depth from Ground Surface (ft)	Unfactored Average Measured Percolation Rate (in/hr)	Soil Description
INF-1	12-15	3.3	Silty Sand (SM)
INF-2	12-15	3.7	Silty Sand (SM)
INF-3	12-15	4.0	Poorly Graded Sand with Silt and Gravel (SP-SM)
INF-4	12-15	2.8	Poorly Graded Sand with Silt and Gravel (SP-SM)

The field percolation rates provided in Table 4 do not include reduction factors for the test type, site variability, and long-term performance. To evaluate long-term infiltration rates used for system design, correction factors are applied in accordance with the GS200.2 guidelines. The variables and associated correction factor ranges are presented in Table 5.

Table 5
County of Los Angeles Correction Factors

CATEGORY	PARTIAL CORRECTION FACTOR
Test Type - Boring percolation	$RF_t = 2$
Site variability, number of tests, and thoroughness of subsurface investigation	$RF_v = 1 \text{ to } 3$
Long-term siltation, plugging and maintenance	$RF_s = 1 \text{ to } 3$

Where:

- The test-specific correction factor (RF_t) accounts for the direction of flow during the test and calculations.
- The site variability correction factor (RF_v) accounts for site variability, number of tests performed, and thoroughness of subsurface investigation.
- The maintenance correction factor (RF_S) accounts for siltation plugging, and bio-buildup in the system. CF_m should be selected based on the specified levels of pre-treatment and maintenance for the proposed BMPs.
- The measured percolation rate is divided by the total correction factor to determine the design infiltration rate.

$$RF = RF_t \times RF_v \times RF_S$$

Copyright 2020 Kleinfelder

For design (long-term) infiltration rate, Kleinfelder recommends the following correction factors shown below in Table 6.

Table 6
Recommended Correction Factors

RF_t	RF_v	RF_S
2	2	2

The long-term infiltration rate was estimated by dividing the short-term percolation rates shown in Table 4 by the recommended total correction factor in accordance with the County of Los Angeles Guidelines. The estimated long-term infiltration rates are presented in Table 7.

Table 7
Design Infiltration Rates

Infiltration Test Location	Average Measured Percolation Rate (in/hr)	Recommended Reduction Factor	Long-Term Infiltration Rate (in/hr)
INF-1	3.3	8	0.42
INF-2	3.7	8	0.46
INF-3	4.0	8	0.49
INF-4	2.8	8	0.34

According to the County of Los Angeles Guidelines, subsurface materials shall have a design infiltration rate equal to or greater than 0.3 inches per hour for stormwater infiltration. It is therefore our opinion that the site is suitable for infiltration BMPs provided the following recommendations are incorporated into the design and construction. We recommend that a design infiltration rate of 0.4 inches per hour be used for BMPs with a proposed invert depth between 10 to 15 feet below grade.

If infiltration BMPs are impractical due to existing site constraints, we recommend alternatives, such as bio-filtration/bio-retention systems (bio-swales and planter boxes), be implemented at the project site. If bio-filtration/bio-retention systems are employed, we recommend that the BMPs be built such that water exiting from them will not seep into the foundation areas or beneath slabs and pavement. If planters are located within 10 feet of the building or building foundations, or adjacent to slabs and pavements, then some means of diverting water away

Copyright 2020 Kleinfelder

from the building, building foundation soils, or soils that support slabs and pavements would be required, such as lining the planters.

3.8 SOIL CORROSION

A preliminary evaluation of the corrosion potential of the on-site soils to steel and buried concrete was completed. Laboratory testing was performed on two soil samples to evaluate pH, minimum resistivity, chloride and soluble sulfate content. The test results are presented in Table 8.

Table 8
Corrosion Test Results

Boring	Depth (ft)	Minimum Resistivity (ohm-cm)	pH	Soluble Sulfate Content (ppm)	Soluble Chloride Content (ppm)
B-1	2-5	24,250	7.2	40	37
B-5	2-5	3,458	8.1	37	44

These tests are only an indicator of soil corrosivity for the samples tested. Other soils found on site may be more, less, or of a similar corrosive nature. Imported fill materials should be tested to confirm that their corrosion potential is not more severe than those noted.

Resistivity values between 3,000 to 5,000 ohm-cm are considered corrosive to buried ferrous metals (Roberge, 2006). The concentrations of soluble sulfates indicate that the subsurface soils represent a Class S0 exposure to sulfate attack on concrete in contact with the soil based on ACI 318-14 Table 19.3.1.1 (ACI, 2014). Therefore, in accordance with ACI Building Code 318-14, no special provisions for selection of cement type are required.

Kleinfelder's scope of services does not include corrosion engineering and, therefore, a detailed analysis of the corrosion test results is not included. We recommend the review of these results and consultation of a corrosion expert for further evaluation, if necessary.

Copyright 2020 Kleinfelder

4 ADDITIONAL SERVICES

4.1 PLANS AND SPECIFICATIONS REVIEW

We recommend that Kleinfelder perform a general review of the project plans and specifications before they are finalized to verify that our geotechnical recommendations have been properly interpreted and implemented during design. If we are not accorded the privilege of performing this review, we can assume no responsibility for misinterpretation of our recommendations.

4.2 CONSTRUCTION OBSERVATION AND TESTING

The construction process is an integral design component with respect to the geotechnical aspects of a project. Because geotechnical engineering is an inexact science due to the variability of natural processes, and because we sample only a limited portion of the soils affecting the performance of the proposed structure, unanticipated or changed conditions can be encountered during grading. Proper geotechnical observation and testing during construction are imperative to allow the geotechnical engineer the opportunity to verify assumptions made during the design process. Therefore, we recommend that Kleinfelder be retained during the construction of the proposed improvements to observe compliance with the design concepts and geotechnical recommendations, and to allow design changes in the event that subsurface conditions or methods of construction differ from those assumed while completing this study.

Our services are typically needed at the following stages of grading:

- After demolition;
- During grading;
- After the overexcavation, but prior to scarification;
- During utility trench backfill;
- During base placement and site paving; and
- After excavation for foundations.

Copyright 2020 Kleinfelder

5 LIMITATIONS

This pavement study has been prepared for the exclusive use of MG2 and their agents for specific application to the proposed DAX9 Warehouse Improvements project located at 1211 Badillo Street in West Covina, California. The findings, conclusions and recommendations presented in this report were prepared in accordance with generally accepted geotechnical engineering practice. No other warranty, express or implied, is made.

The scope of services was limited to a background data review and our current field exploration. It should be recognized that definition and evaluation of subsurface conditions are difficult. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. The conclusions of this assessment are based on our field exploration and laboratory testing programs, and engineering analyses.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. Although risk can never be eliminated, more detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service, which provide information for their purposes at acceptable levels of risk. The client and key members of the design team should discuss the issues covered in this report with Kleinfelder, so that the issues are understood and applied in a manner consistent with the owner's budget, tolerance of risk and expectations for future performance and maintenance.

Recommendations contained in this report are based on our field observations and subsurface explorations, limited laboratory tests, and our present knowledge of the proposed construction. It is possible that soil or groundwater conditions could vary between or beyond the points explored. If soil or groundwater conditions are encountered during construction that differ from those described herein, the client is responsible for ensuring that Kleinfelder is notified immediately so that we may reevaluate the recommendations of this report. If the scope of the proposed construction changes from that described in this report, the conclusions and recommendations contained in this report are not considered valid until the changes are reviewed, and the conclusions of this report are modified or approved in writing, by Kleinfelder.

The scope of services for this subsurface exploration and geotechnical report did not include environmental assessments or evaluations regarding the presence or absence of wetlands or hazardous substances in the soil, surface water, or groundwater at this site.

Copyright 2020 Kleinfelder

Kleinfelder cannot be responsible for interpretation by others of this report or the conditions encountered in the field. Kleinfelder must be retained so that all geotechnical aspects of construction will be monitored on a full-time basis by a representative from Kleinfelder, including site preparation, preparation of foundations, and placement of engineered fill and trench backfill. These services provide Kleinfelder the opportunity to observe the actual soil and groundwater conditions encountered during construction and to evaluate the applicability of the recommendations presented in this report to the site conditions. If Kleinfelder is not retained to provide these services, we will cease to be the engineer of record for this project and will assume no responsibility for any potential claim during or after construction on this project. If changed site conditions affect the recommendations presented herein, Kleinfelder must also be retained to perform a supplemental evaluation and to issue a revision to our original report.

This report, and any future addenda or reports regarding this site, may be made available to bidders to supply them with only the data contained in the report regarding subsurface conditions and laboratory test results at the point and time noted. Bidders may not rely on interpretations, opinion, recommendations, or conclusions contained in the report. Because of the limited nature of any subsurface study, the contractor may encounter conditions during construction which differ from those presented in this report. In such event, the contractor should promptly notify the owner so that Kleinfelder's geotechnical engineer can be contacted to confirm those conditions. We recommend the contractor describe the nature and extent of the differing conditions in writing and that the construction contract include provisions for dealing with differing conditions. Contingency funds should be reserved for potential problems during earthwork and foundation construction.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance, but in no event later than one year from the date of the report. Land use, site conditions (both on site and off site) or other factors may change over time, and additional work may be required with the passage of time. Any party, other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of this report and the nature of the new project, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the client agrees to defend, indemnify, and hold harmless Kleinfelder from any claims or liability associated with such unauthorized use or non-compliance.

Copyright 2020 Kleinfelder

6 REFERENCES

American Concrete Institute (ACI), 2014, Building Code Requirements for Structural Concrete (ACI 318-14). and Commentary (ACI 318R-14).

ASCE, 2016, Minimum Design Load for Buildings and Other Structures (ASCE/SEI 7-16).

California Department of Transportation (Caltrans), 2017, Highway Design Manual, Section 600, Sacramento, California, dated November 20, 2017.

California Geological Survey (CGS), 1999, Earthquake Zones of Required Investigation, Baldwin Park Quadrangle, map dated March 25, 1998.

Department of Conservation, Division of Mines and Geology (CDMG), 1998, Seismic Hazard Zone Report for the Baldwin Park 7.5-Minute Quadrangle, Los Angeles County, California, 1998, updated January 13, 2006.

Design Criteria and Outline Specifications for the Development of Delivery Stations, Version 2.02, dated July 30, 2020.

County of Los Angeles, 2017, Department of Public Works Administrative Manual GS200.2, Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, dated June 30, 2017

International Code Council, Inc., 2019 California Building Code.

MG2, 2020, Preliminary Concept Site Plan, DAX9, 1211 E. Badillo Street, West Covina, CA, 91790, dated May 12, 2020.

OSHPD, 2018, Seismic Design Maps website, accessed via web June 2020 https://seismicmaps.org/.

Portland Cement Association (PCA), 1984, Thickness Design for Concrete Highway and Street Pavements.

PCA, 1988, Design and Control of Concrete Mixtures, Portland Cement Association, Skokie, Illinois.

Wisconsin Transportation Information Center, University of Wisconsin-Madison, 2002, PASER Asphalt Roads Manual, Pavement Surface Evaluation and Rating, dated 2002.

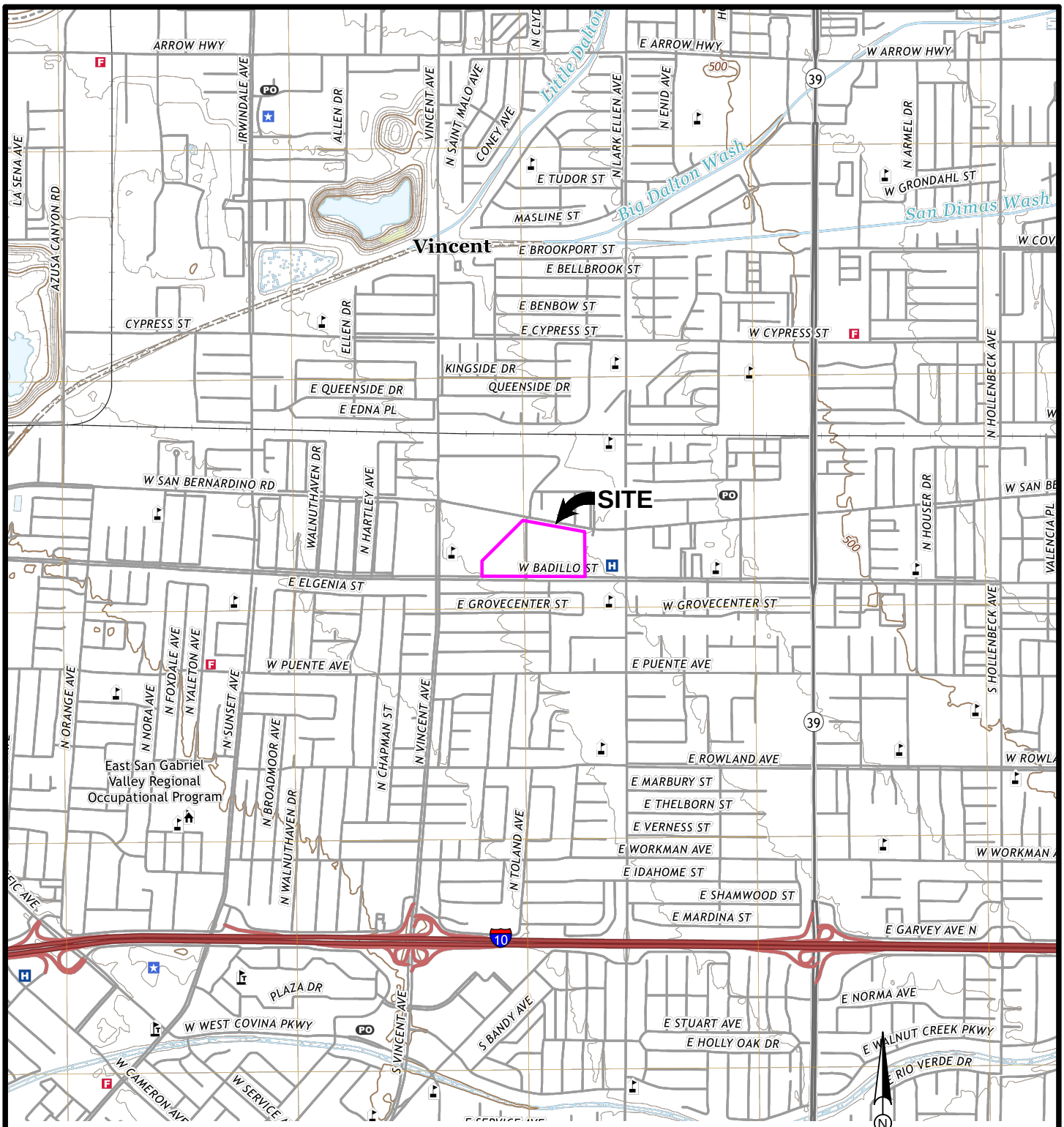
Copyright 2020 Kleinfelder

Wisconsin Transportation Information Center, University of Wisconsin-Madison, 2015, PASER Concrete Roads Manual, Pavement Surface Evaluation and Rating, dated 2015.

Copyright 2020 Kleinfelder

FIGURES

Copyright 2020 Kleinfelder



SOURCE: U.S.G.S. 7.5' topographic series, Baldwin Park, California quadrangle, dated 2018.

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

2,000 1,000 0 2,000

APPROXIMATE SCALE (feet)

KLEINFELDER
Bright People. Right Solutions.

PROJECT:	20203313
DRAWN BY:	DMF
CHECKED BY:	ZJ
DATE:	06/2020
REVISED:	06/2020

SITE VICINITY MAP

PROPOSED DAX9
WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

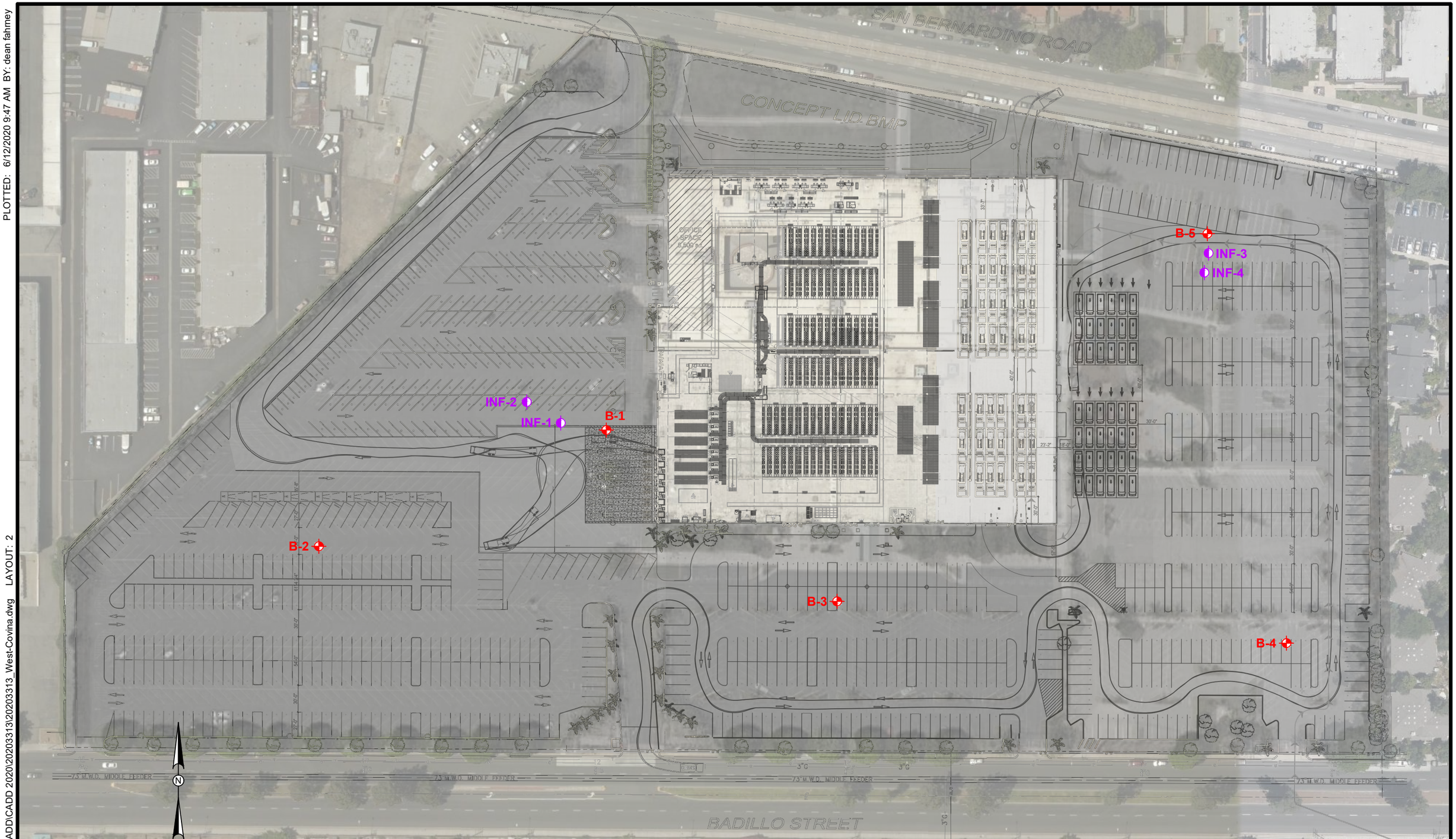
FIGURE

1

PLOTTED: 6/3/2020 9:44 AM BY: dean fahrney
CAD FILE: U:\Projects\CADD\CADD 20202020331320203313_West-Covina.dwg

PLOTTED: 6/12/2020 9:47 AM BY: dean fahmey

CAD FILE: U:\Projects\CADD\CADD 2020\20203313\20203313_West-Covina.dwg LAYOUT: 2



100 50 0 100

APPROXIMATE SCALE (feet)

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

EXPLANATION

B-4 APPROXIMATE BORING LOCATION

INF-4 APPROXIMATE INFILTRATION TEST LOCATION

REFERENCE: BASE MAP PROVIDED BY MG2, DATED 05/12/2020

KLEINFELDER
Bright People. Right Solutions.

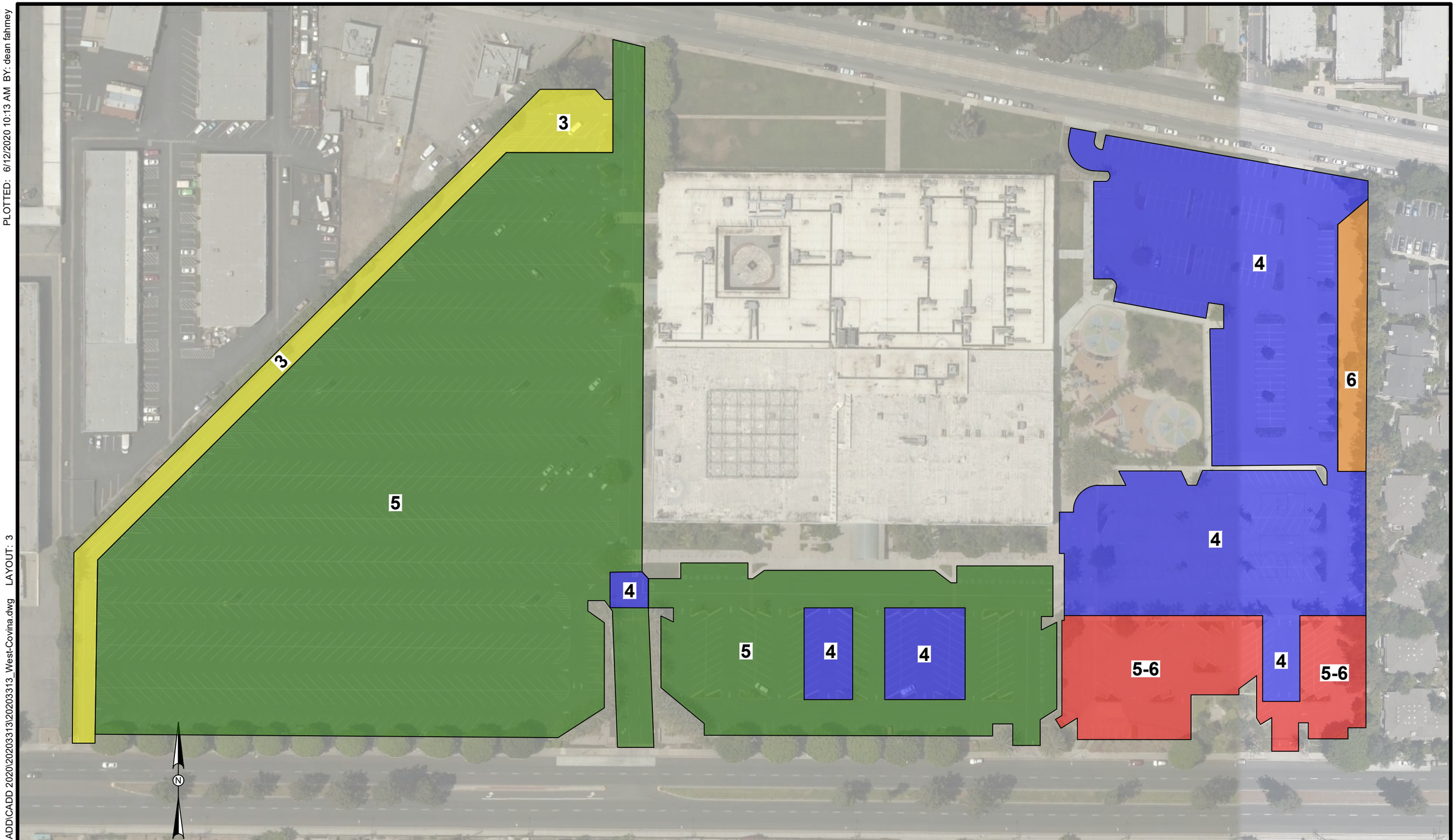
PROJECT:	20203313
DRAWN BY:	DMF
CHECKED BY:	ZJ
DATE:	06/2020
REVISED:	06/2020

EXPLORATION LOCATION MAP

PROPOSED DAX9
WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

FIGURE

2



100 50 0 100

APPROXIMATE SCALE (feet)

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

EXPLANATION

- PASER RATING 3
- PASER RATING 4
- PASER RATING 5
- PASER RATING 5-6
- PASER RATING 6

KLEINFELDER
Bright People. Right Solutions.

PROJECT:	20203313
DRAWN BY:	DMF
CHECKED BY:	ZJ
DATE:	06/2020
REVISED:	06/2020

PASER MAP

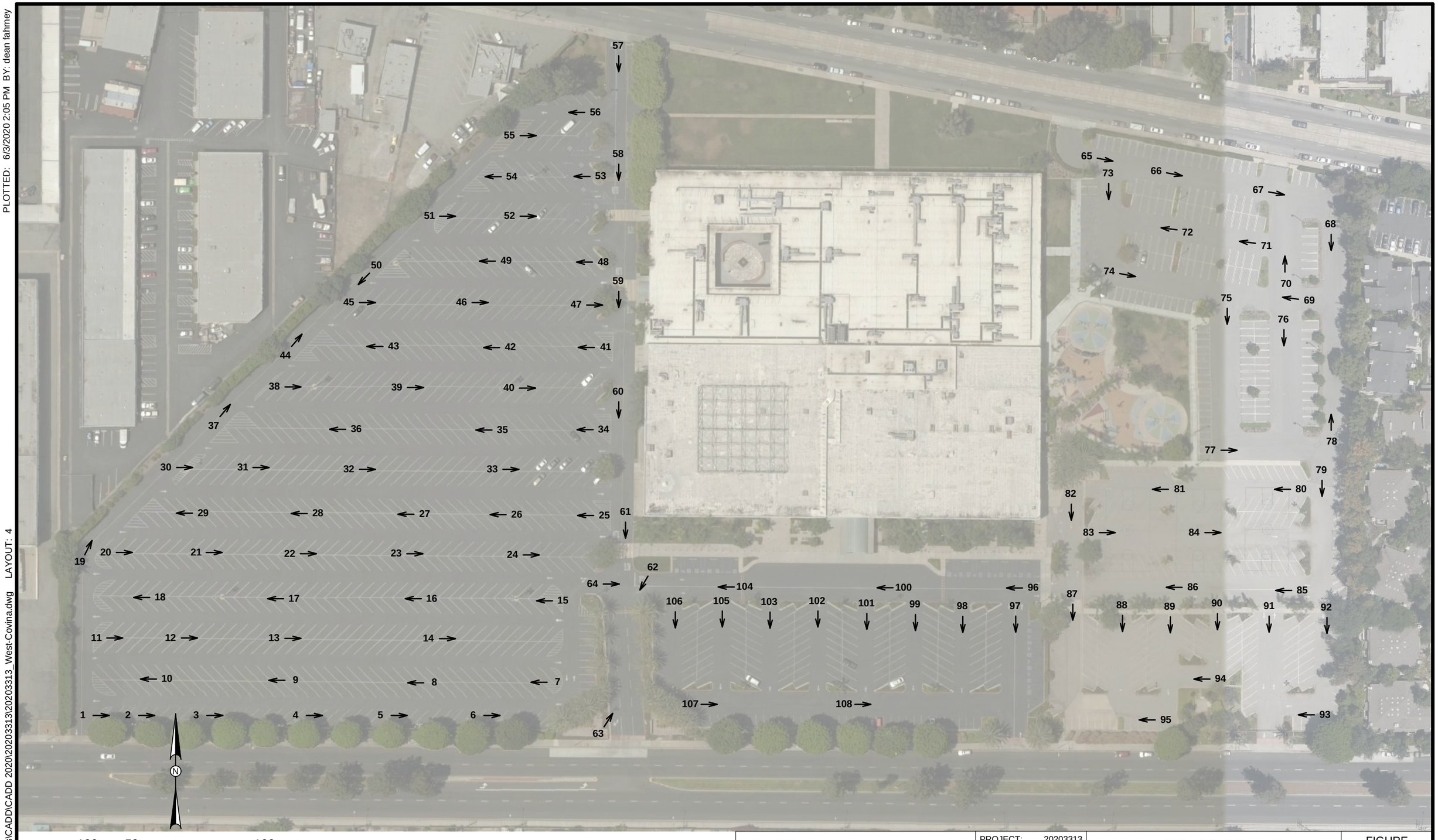
PROPOSED DAX9
WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

FIGURE

3

PLOTTED: 6/12/2020 10:13 AM BY: dean fahmey
CAD FILE: U:\Projects\CADD\CADD 2020\20203313\20203313_West-Covina.dwg LAYOUT: 3

PLOTTED: 6/3/2020 2:05 PM BY: dean fahmey
CAD FILE: U:\Projects\CADD\CADD 2020\20203313\20203313_West-Covina.dwg LAYOUT: 4



100 50 0 100

APPROXIMATE SCALE (feet)

EXPLANATION

←110 PHOTOGRAPH LOCATION AND DIRECTION

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

KLEINFELDER
Bright People. Right Solutions.

PROJECT:	20203313
DRAWN BY:	DMF
CHECKED BY:	ZJ
DATE:	06/2020
REVISED:	06/2020

PHOTO LOCATION MAP

PROPOSED DAX9
WAREHOUSE IMPROVEMENTS
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

FIGURE
4

APPENDIX A
Field Explorations

Copyright 2020 Kleinfelder

SAMPLE/SAMPLER TYPE GRAPHICS

BAG SAMPLE

BULK SAMPLE

CALIFORNIA SAMPLER
(3 in. (76.2 mm.) outer diameter)

STANDARD PENETRATION SPLIT SPOON SAMPLER
(2 in. (50.8 mm.) outer diameter and 1-3/8 in. (34.9 mm.) inner diameter)

GROUND WATER GRAPHICS

WATER LEVEL (level where first observed)

WATER LEVEL (level after exploration completion)

WATER LEVEL (additional levels after exploration)

OBSERVED SEEPAGE

NOTES

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.
- If sampler is not able to be driven at least 6 inches then 50/X indicates number of blows required to drive the identified sampler X inches with a 140 pound hammer falling 30 inches.

ABBREVIATIONS
WOH - Weight of Hammer
WOR - Weight of Rod

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)

COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	**GRAVELS** (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu≥4 and 1≤Cc≤3		**GW**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			Cu<4 and/ or 1>Cc>3		**GP**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH 5% TO 12% FINES	Cu≥4 and 1≤Cc≤3		**GW-GM**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
			Cu<4 and/ or 1>Cc>3		**GP-GM**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		GRAVELS WITH > 12% FINES			**GM**	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
					GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
					GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
	SANDS (Half or more of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu≥6 and 1≤Cc≤3		**SW**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			Cu<6 and/ or 1>Cc>3		**SP**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH 5% TO 12% FINES	Cu≥6 and 1≤Cc≤3		**SW-SM**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
			Cu<6 and/ or 1>Cc>3		**SP-SM**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		SANDS WITH > 12% FINES			**SM**	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
					SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
					SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES

FINE GRAINED SOILS (Half or more of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)	**ML**	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Liquid Limit 50 or greater)	**MH**	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20203313.001A
DRAWN BY: JRH
CHECKED BY: ZSJ
DATE: 6/12/2020

GRAPHICS KEY

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

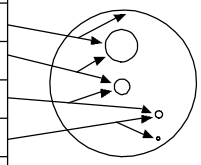
FIGURE
A-1

gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_GEO-LEG1 (GRAPHICS KEY) WITH USCS]
PROJECT NUMBER: 20203313.001A
OFFICE FILTER: LAGUNA HILLS
PLOTTED: 06/12/2020 11:52 AM BY: JHawkins

PLOTTED: 06/12/2020 11:53 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [KLF_GEO-LEG 2 (SOIL DESC KEY)]
gINT FILE: Klf_gint_master_2020

GRAIN SIZE

DESCRIPTION		SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders		>12 in. (304.8 mm.)	>12 in. (304.8 mm.)	Larger than basketball-sized
Cobbles		3 - 12 in. (76.2 - 304.8 mm.)	3 - 12 in. (76.2 - 304.8 mm.)	Fist-sized to basketball-sized
Gravel	coarse	3/4 -3 in. (19 - 76.2 mm.)	3/4 -3 in. (19 - 76.2 mm.)	Thumb-sized to fist-sized
	fine	#4 - 3/4 in. (#4 - 19 mm.)	0.19 - 0.75 in. (4.8 - 19 mm.)	Pea-sized to thumb-sized
Sand	coarse	#10 - #4	0.079 - 0.19 in. (2 - 4.9 mm.)	Rock salt-sized to pea-sized
	medium	#40 - #10	0.017 - 0.079 in. (0.43 - 2 mm.)	Sugar-sized to rock salt-sized
	fine	#200 - #40	0.0029 - 0.017 in. (0.07 - 0.43 mm.)	Flour-sized to sugar-sized
Fines		Passing #200	<0.0029 in. (<0.07 mm.)	Flour-sized and smaller



SECONDARY CONSTITUENT

	AMOUNT	
Term of Use	Secondary Constituent is Fine Grained	Secondary Constituent is Coarse Grained
Trace	<5%	<15%
With	≥5 to <15%	≥15 to <30%
Modifier	≥15%	≥30%

MOISTURE CONTENT

DESCRIPTION	FIELD TEST
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

CEMENTATION

DESCRIPTION	FIELD TEST
Weakly	Crumbles or breaks with handling or slight finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

CONSISTENCY - FINE-GRAINED SOIL

CONSISTENCY	SPT - N_{60} (# blows / ft)	Pocket Pen (tsf)	UNCONFINED COMPRESSIVE STRENGTH (Q_u)(psf)	VISUAL / MANUAL CRITERIA
Very Soft	<2	PP < 0.25	<500	Thumb will penetrate more than 1 inch (25 mm). Extrudes between fingers when squeezed.
Soft	2 - 4	0.25 ≤ PP <0.5	500 - 1000	Thumb will penetrate soil about 1 inch (25 mm). Remolded by light finger pressure.
Medium Stiff	4 - 8	0.5 ≤ PP <1	1000 - 2000	Thumb will penetrate soil about 1/4 inch (6 mm). Remolded by strong finger pressure.
Stiff	8 - 15	1 ≤ PP <2	2000 - 4000	Can be imprinted with considerable pressure from thumb.
Very Stiff	15 - 30	2 ≤ PP <4	4000 - 8000	Thumb will not indent soil but readily indented with thumbnail.
Hard	>30	4 ≤ PP	>8000	Thumbnail will not indent soil.

FROM TERZAGHI AND PECK, 1948; LAMBE AND WHITMAN, 1969; FHWA, 2002; AND ASTM D2488

REACTION WITH HYDROCHLORIC ACID

DESCRIPTION	FIELD TEST
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

APPARENT / RELATIVE DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPT-N_{60} (# blows/ft)	MODIFIED CA SAMPLER (# blows/ft)	CALIFORNIA SAMPLER (# blows/ft)	RELATIVE DENSITY (%)
Very Loose	<4	<4	<5	0 - 15
Loose	4 - 10	5 - 12	5 - 15	15 - 35
Medium Dense	10 - 30	12 - 35	15 - 40	35 - 65
Dense	30 - 50	35 - 60	40 - 70	65 - 85
Very Dense	>50	>60	>70	85 - 100

FROM TERZAGHI AND PECK, 1948

PLASTICITY

DESCRIPTION	LL	FIELD TEST
Non-plastic	NP	A 1/8-in. (3 mm.) thread cannot be rolled at any water content.
Low (L)	< 30	The thread can barely be rolled and the lump or thread cannot be formed when drier than the plastic limit.
Medium (M)	30 - 50	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump or thread crumbles when drier than the plastic limit.
High (H)	> 50	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump or thread can be formed without crumbling when drier than the plastic limit.

STRUCTURE

DESCRIPTION	CRITERIA
Stratified	Alternating layers of varying material or color with layers at least 1/4-in. thick, note thickness.
Laminated	Alternating layers of varying material or color with the layer less than 1/4-in. thick, note thickness.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear polished or glossy, sometimes striated.
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown.
Lensed	Inclusion of small pockets of different soils, such as small lenses of sand scattered through a mass of clay; note thickness.

ANGULARITY

DESCRIPTION	CRITERIA
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces.
Subangular	Particles are similar to angular description but have rounded edges.
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges.
Rounded	Particles have smoothly curved sides and no edges.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20203313.001A
DRAWN BY: JRH
CHECKED BY: ZSJ
DATE: 6/12/2020

SOIL DESCRIPTION KEY

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-2

BORING LOG B-1

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029		
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS							
		Surface Condition: Asphalt											
		Asphalt Concrete: approximatley 3-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 4-inches thick					9.5						
		Artificial Fill											
		Silty SAND (SM): fine- to medium-grained, reddish brown, moist					8.1			18			R-Value, Corrosion Test
		Alluvium											
5		**Silty SAND (SM)**: fine- to medium-grained, reddish brown, moist medium dense, increased silt content		BC=4 6 7	12"		7.2	107.8					
		iron oxide staining		BC=4 6 9	12"		10.7	111.2					
10				BC=5 7 9	12"		8.5	105.1					
		fine-grained, olive brown											
15				BC=2 4 6	12"		8.6			20			
20				BC=5 7 11	12"		7.0	110.1					
25		**Poorly Graded SAND with Silt and Gravel (SP-SM)**: fine- to medium-grained, light brownish grey, moist, medium dense, fine to coarse, subrounded gravel up to 1 inch.		BC=4 9 9	8"					6.3			
30		fine- to coarse-grained, dry, dense		BC=8 14 17	12"								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20203313.001A
DRAWN BY: JRH
CHECKED BY: ZSJ
DATE: 6/12/2020

BORING LOG B-1

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-3

PLOTTED: 06/15/2020 09:05 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

BORING LOG B-1

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029		
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Asphalt Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Silty SAND with Gravel (SM): fine- to medium-grained, dark brown, moist, dense, fine, subrounded gravel up to 0.75 inch		BC=3 6 18	12"					27			
40		pale olive, very dense, increased fine to coarse gravel up to 1 inch		BC=27 50/6""	10"								
45		dark reddish brown, dense to very dense, decreased gravel		BC=27 14 18	14"								
		Poorly Graded SAND with Gravel (SP): fine- to medium-grained, reddish yellow, moist, very dense, fine, subrounded gravel up to 0.5 inch		BC=23 33 50									
50													
55													
60													
65													

The boring was terminated at approximately 51.5 ft. below ground surface. The boring was backfilled with cement/bentonite grout on May 28, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

BORING LOG B-1

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-4

gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20203313.001A
OFFICE FILTER: LAGUNA HILLS
PLOTTED: 06/15/2020 09:05 AM BY: JHawkins

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029	**BORING LOG B-2**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Asphalt Concrete: approximately 3-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 4-inches thick					7.5						
		Artificial Fill **Silty SAND with Gravel (SM)**: fine- to medium-grained, moist, fine to coarse gravel					6.5						Compaction Test
5		**Alluvium** **Poorly Graded SAND with Silt (SP-SM)**: fine- to medium-grained, reddish brown, moist											
10													
15													
20													
25													
30													

The boring was terminated at approximately 5 ft. below ground surface. The boring was backfilled with auger cuttings and patched at surface on May 28, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

BORING LOG B-2

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-5

PAGE: 1 of 1

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins
PROJECT NUMBER: 20203313.001A OFFICE FILTER: LAGUNA HILLS
gINT FILE: Klf_gint_master_2020 gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029	**BORING LOG B-3**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
0		**Asphalt Concrete**: approximately 4-inches thick, no base observed											Hand augered to 5 feet below ground surface
		Artificial Fill **Silty SAND with Gravel (SM)**: fine- to medium-grained, moist, fine to coarse gravel					7.8						
		Alluvium **Silty SAND (SM)**: fine- to medium-grained, reddish brown, moist, micaceous					8.8						
5													
10													
15													
20													
25													
30													

The boring was terminated at approximately 5 ft. below ground surface. The boring was backfilled with auger cuttings and patched at surface on May 28, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20203313.001A
OFFICE FILTER: LAGUNA HILLS

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

BORING LOG B-3

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-6

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029	**BORING LOG B-4**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
0		**Asphalt Concrete**: approximately 4-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 6.5-inches thick					8.2						
		Artificial Fill **Silty SAND with Gravel (SM)**: fine- to medium-grained, moist, fine to coarse gravel					8.7						
		Alluvium **Silty SAND (SM)**: fine-grained, reddish brown, moist											
5													
10													
15													
20													
25													
30													

The boring was terminated at approximately 5 ft. below ground surface. The boring was backfilled with auger cuttings and patched at surface on May 28, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20203313.001A	BORING LOG B-4		FIGURE
DRAWN BY: JRH	Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, California		A-7
CHECKED BY: ZSJ			
DATE: 6/12/2020			PAGE: 1 of 1

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/28/2020	**Drilling Co.-Lic.#:**	2R - #709029	**BORING LOG B-5**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Asphalt Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Asphalt Concrete: approximately 2.5-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 10-inches thick					12.3						
		Artificial Fill **Silty SAND with Gravel (SM)**: olive grey, odor, moist, fine- to medium-grained sand, fine, angular gravel up to 0.25 inch, trash and concrete pieces observed in fill					12.4			44			Corrosion Test Boulder observed at 2.5 feet below ground surface during hand augering
5		**Alluvium** **Sandy Lean CLAY with Gravel (CL)**: medium plasticity, moist, very stiff, fine, subangular gravel up to 0.5 inch		BC=5 9 11	12"		10.8	125.5					
		Clayey SAND with Gravel (SC): fine- to medium-grained, low plasticity, olive brown, moist, fine, subangular gravel up to 0.25 inch medium dense		BC=3 4 8	12"		12.8	116.9					
10		**Poorly Graded SAND with Gravel (SP)**: fine- to coarse-grained, pale grey, dry, very dense, fine to coarse, subrounded gravel up to 1 inch		BC=20 27 33	12"		2.8						Rock observed in shoe, sample disturbed and placed into SPT bag
15		**Poorly Graded SAND with Silt and Gravel (SP-SM)**: fine- to medium-grained, olive brown, dry, very dense, fine, angular gravel up to 0.5 inch		BC=10 17 18	12"					6.4			
20		**Silty SAND (SM)**: fine-grained, reddish brown, moist, medium dense		BC=4 5 7	12"								
25				BC=5 6 9	14"								
30													

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with cement/bentonite grout on May 28, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

BORING LOG B-5

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-8

PAGE: 1 of 1

gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20203313.001A
OFFICE FILTER: LAGUNA HILLS
PLOTTED: 06/15/2020 09:06 AM BY: JHawkins

PERCOLATION TEST HOLE LOG INF-1

Date Begin - End:	5/28/2020 - 5/29/2020	**Drilling Co.-Lic.#:**	2R - #709029		
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS							
		Surface Condition: Asphalt											
		Asphalt Concrete: approximately 3-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 5-inches thick											
		Artificial Fill **Silty SAND with Gravel (SM)**: fine- to medium-grained, olive brown, moist, fine, rounded gravel up to 0.75 inch, cobbles present					7.4						
5		**Alluvium** **Silty SAND (SM)**: fine-grained, reddish brown, moist											
10													
		pale olive, medium dense, increased silt, micaceous		BC=4 5 5	12"				100	24			
15													
20													
25													
30													

The percolation test hole was terminated at approximately 15 ft. below ground surface. The percolation test hole was backfilled with auger cuttings and patched at surface on May 29, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

PERCOLATION TEST HOLE LOG INF-1

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-9

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins
PROJECT NUMBER: 20203313.001A OFFICE FILTER: LAGUNA HILLS
gINT FILE: Klf_gint_master_2020 gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/28/2020 - 5/29/2020	**Drilling Co.-Lic.#:**	2R - #709029	**PERCOLATION TEST HOLE LOG INF-2**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Asphalt Concrete: approximately 3-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 4-inches thick	☒				5.9						
		Artificial Fill **Silty SAND with Gravel (SM)**: fine- to medium-grained, olive brown, moist, fine, rounded gravel up to 0.5 inch											
5		**Alluvium** **Poorly Graded SAND with Gravel (SP)**: fine- to medium-grained, olive yellow, moist, fine, angular gravel up to 0.25 inch											
		Silty SAND (SM): fine- to medium-grained, reddish brown, moist											
10													
		pale olive, medium dense, micaceous	◺	BC=4 4 5	18"				98	24			
15													
20													
25													
30													

The percolation test hole was terminated at approximately 15.5 ft. below ground surface. The percolation test hole was backfilled with auger cuttings and patched at surface on May 29, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

PERCOLATION TEST HOLE LOG INF-2

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-10

PAGE: 1 of 1

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/28/2020 - 5/29/2020	**Drilling Co.-Lic.#:**	2R - #709029	**PERCOLATION TEST HOLE LOG INF-3**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Asphalt Concrete: approximately 3-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 9-inches thick											
		Artificial Fill **Clayey SAND with Gravel (SC)**: fine-grained, olive grey, moist, fine gravel up to 0.25 inch					11.8						
5		**Alluvium** **Sandy Lean CLAY (CL)**: medium plasticity, dark grey, moist, fine to coarse gravel up to 1 inch, trace cobbles											
		Silty SAND (SM): fine-grained, reddish brown, moist											
10		**Poorly Graded SAND with Silt and Gravel (SP-SM)**: fine- to coarse-grained, dry, very dense, fine, angular gravel up to 0.5 inch											
				BC=16 22 31	18"	SP-SM			67	9.0			
15													
20													
25													
30													

The percolation test hole was terminated at approximately 15 ft. below ground surface. The percolation test hole was backfilled with auger cuttings and patched at surface on May 29, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20203313.001A	PERCOLATION TEST HOLE LOG INF-3		FIGURE
DRAWN BY: JRH	Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, California		A-11
CHECKED BY: ZSJ			
DATE: 6/12/2020			PAGE: 1 of 1

PLOTTED: 06/15/2020 09:06 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/28/2020 - 5/29/2020	**Drilling Co.-Lic.#:**	2R - #709029	**PERCOLATION TEST HOLE LOG INF-4**	
Logged By:	D. Dockendorf	**Drill Crew:**	Nick and Mark		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION: Surface Condition: Asphalt / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
0		**Asphalt Concrete**: approximately 2.5-inches thick											Hand augered to 5 feet below ground surface
		Aggregate Base: approximately 8-inches thick											
		Artificial Fill **Clayey SAND with Gravel (SC)**: fine-grained, olive grey, moist, fine, angular gravel up to 0.25 inch					13.2						
5		**Alluvium** **Silty SAND (SM)**: reddish brown, moist, increased gravel content											
10		**Poorly Graded SAND with Silt and Gravel (SP-SM)**: fine- to coarse-grained, mottled olive and white, dry, very dense, fine, angular gravel up to 0.25 inch											
15				BC=12 22 23	12"	SP-SM			65	9.0			
20													
25													
30													

The percolation test hole was terminated at approximately 15 ft. below ground surface. The percolation test hole was backfilled with auger cuttings and patched at surface on May 29, 2020.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20203313.001A
DRAWN BY:	JRH
CHECKED BY:	ZSJ
DATE:	6/12/2020

PERCOLATION TEST HOLE LOG INF-4

Proposed DAX9
Warehouse Improvements
1211 Badillo Street
West Covina, California

FIGURE
A-12

PAGE: 1 of 1

PLOTTED: 06/15/2020 09:07 AM BY: JHawkins
OFFICE FILTER: LAGUNA HILLS
PROJECT NUMBER: 20203313.001A
gINT FILE: Klf_gint_master_2020
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2020.GLB [_KLF_BORING/TEST PIT SOIL LOG]

APPENDIX B
Laboratory Testing

Copyright 2020 Kleinfelder

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name: DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
B-1	Bag 1	1-2	9.5	NA
B-1	Bulk	2-5	8.1	NA
B-1	1	5	7.2	107.8
B-1	2	7.5	10.7	111.2
B-1	3	10	8.5	105.1
B-1	4	15	8.6	NA
B-1	5	20	7.0	110.1

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
B-2	Bag 1	1-1.5	7.5	NA
B-2	Bulk	2-5	6.5	NA

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
B-3	Bag 1	1-1.5	7.8	NA
B-3	Bulk	2-5	8.8	NA

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
B-4	Bag 1	1-1.5	8.2	NA
B-4	Bulk	2-5	8.7	NA

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
B-5	Bag 1	1-2	12.3	NA
B-5	Bulk	2-5	12.4	NA
B-5	1	5	10.8	125.5
B-5	2	7.5	12.8	116.9
B-5	3	10	2.8	NA

MOISTURE AND DENSITY TEST RESULTS

ASTM D2216 and ASTM D7263 (Method B)

Client: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Sample Depth (ft.)	Moisture Content (%)	Dry Density (pcf)
INF-1	Bag 1	2-2.5	7.4	NA
INF-2	Bag 1	1-1.5	5.9	NA
INF-3	Bag 1	1.5-2	11.8	NA
INF-4	Bag 1	1-1.5	13.2	NA

PERCENT PASSING NO. 200 SIEVE

ASTM D1140

Client: Kleinfelder
Project Name: DAX9 West Covina, CA
Project Number: 20203313.001A
AP Lab No.: 20-0606
Test Date: 06/03/20

Boring No.	Sample No.	Depth (ft)	Percent Fines (%)
B-1	Bulk	2-5	18.3
B-1	4	15	19.9
B-1	6	25	6.3
B-1	8	35	26.6

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

PERCENT PASSING NO. 200 SIEVE

ASTM D1140

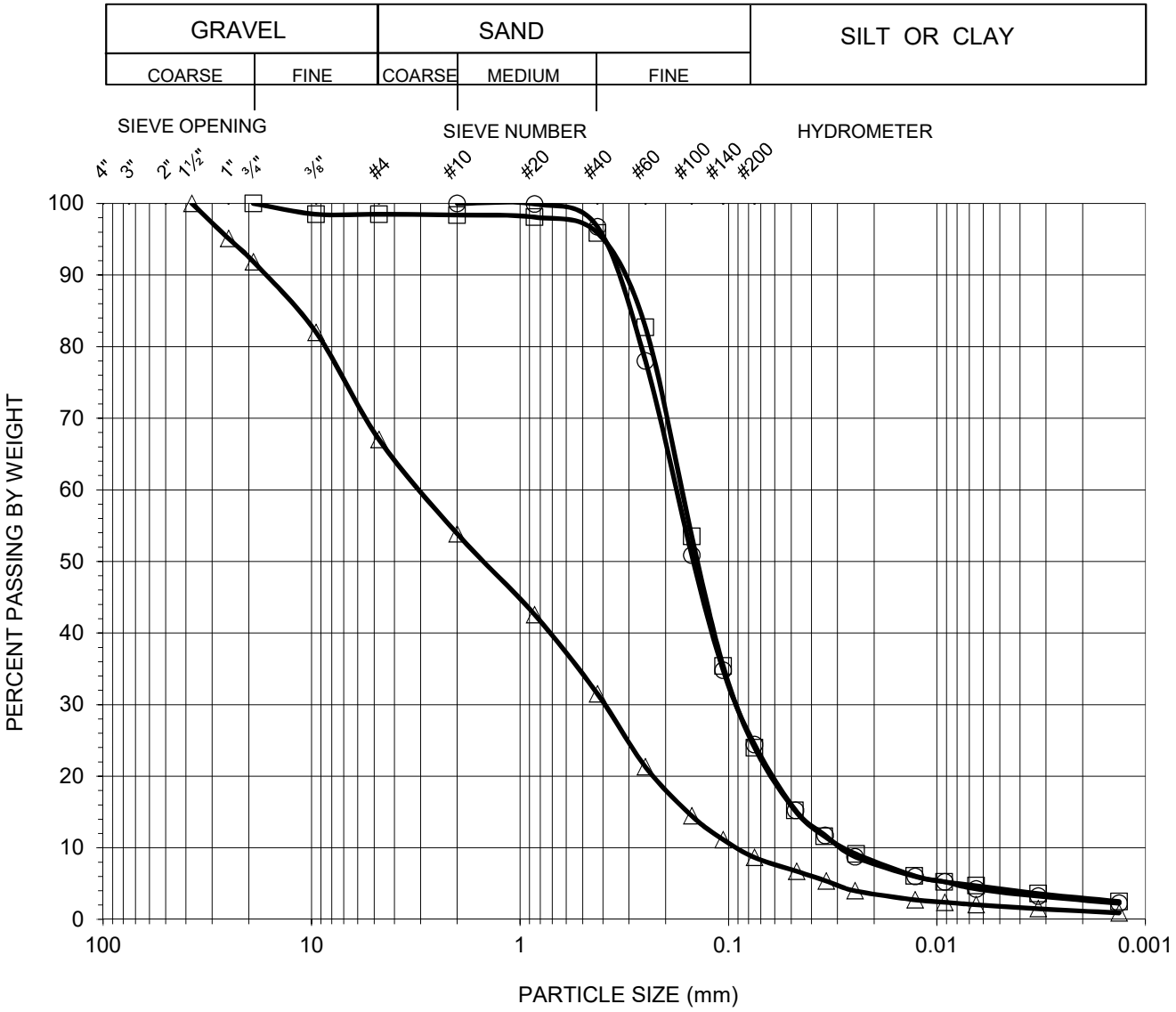
Client:	Kleinfelder	AP Lab No.:	20-0606
Project Name	DAX9 West Covina, CA	Test Date:	06/03/20
Project Number:	20203313.001A		

Boring No.	Sample No.	Depth (ft)	Percent Fines (%)
B-5	Bulk	2-5	44.2
B-5	4	15	6.4

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

GRAIN SIZE DISTRIBUTION CURVE
ASTM D 6913 & D 7928

Client Name: Kleinfelder — Tested by: NR — Date: 06/08/20
Project Name: DAX9 West Covina, CA — Computed by: NR — Date: 06/09/20
Project No.: 20203313.001A — Checked by: AP — Date: 06/09/20

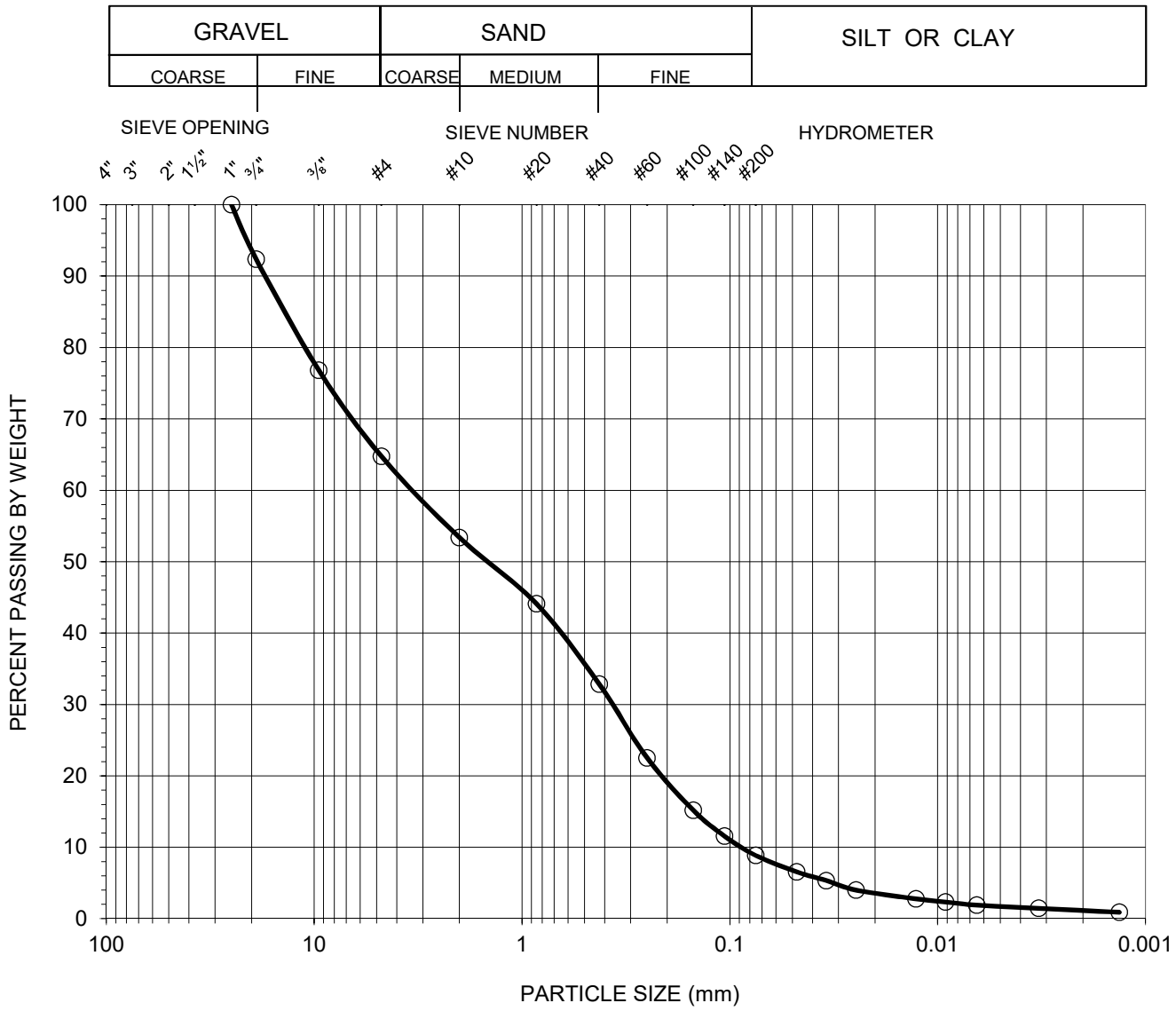


Symbol	Boring No.	Sample No.	Sample Depth (feet)	Percent			Atterberg Limits LL:PL:PI	Soil Type U.S.C.S
				Gravel	Sand	Silt & Clay		
○	INF-1	1	13.5	0	76	24	N/A	SM
□	INF-2	1	13.5	2	74	24	N/A	SM
△	INF-3	1	13.5	33	58	9	N/A	SP-SM

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

GRAIN SIZE DISTRIBUTION CURVE
ASTM D 6913 & D 7928

Client Name: Kleinfelder — Tested by: NR — Date: 06/08/20
Project Name: DAX9 West Covina, CA — Computed by: NR — Date: 06/09/20
Project No.: 20203313.001A — Checked by: AP — Date: 06/09/20



Symbol	Boring No.	Sample No.	Sample Depth (feet)	Percent			Atterberg Limits LL:PL:PI	Soil Type U.S.C.S
				Gravel	Sand	Silt & Clay		
○	INF-4	1	13.5	35	56	9	N/A	SP-SM

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

COMPACTION TEST

Client: Kleinfelder
AP Number: 20-0606
Project Name: DAX9 West Covina, CA
Tested By: SM
Date: 06/04/20
Project No. : 20203313.001A
Calculated By: NR
Date: 06/05/20
Boring No.: B-2
Checked By: AP
Date: 06/09/20
Sample No.: Bulk
Depth(ft.): 2-5
Visual Sample Description: Poorly-Graded Sand w/silt

Compaction Method: [X] ASTM D1557 [ ] ASTM D698
Preparation Method: [ ] Moist [X] Dry

METHOD: A
MOLD VOLUME (CU.FT): 0.0333

Wt. Comp. Soil + Mold (gm.)	3674	3733	3785	3802		
Wt. of Mold (gm.)	1845	1845	1845	1845		
Net Wt. of Soil (gm.)	1829	1888	1940	1957		
Container No.						
Wt. of Container (gm.)	149.68	147.36	151.07	151.95		
Wet Wt. of Soil + Cont. (gm.)	634.82	569.85	549.29	576.20		
Dry Wt. of Soil + Cont. (gm.)	607.89	537.99	509.53	526.94		
Moisture Content (%)	5.88	8.16	11.09	13.14		
Wet Density (pcf)	120.93	124.83	128.27	129.43		
Dry Density (pcf)	114.22	115.42	115.47	114.40		

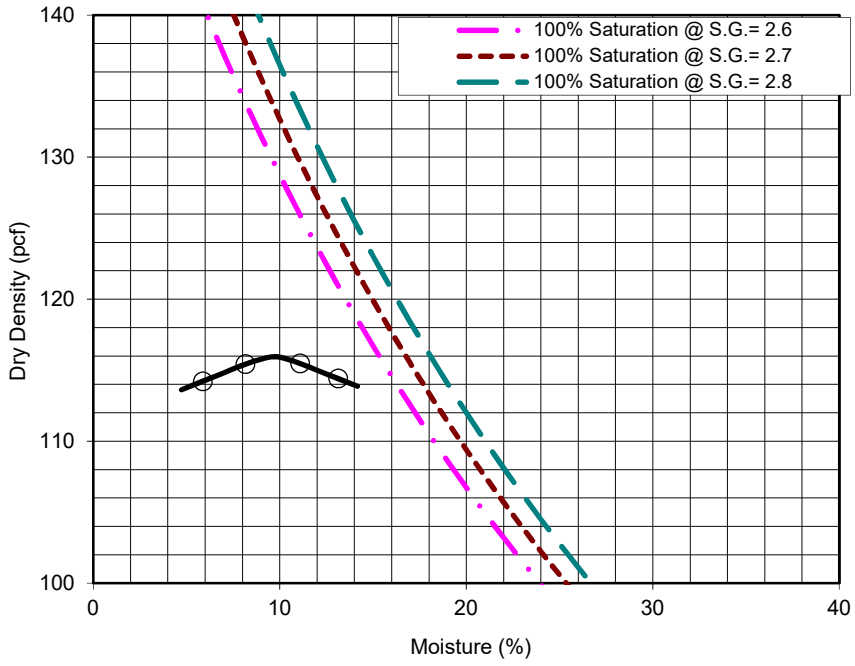
Maximum Dry Density (pcf): **115.9**
Maximum Dry Density w/ Rock Correction (pcf): **N/A**
Optimum Moisture Content (%): **9.8**
Optimum Moisture Content w/ Rock Correction (%): **N/A**

PROCEDURE USED

[X] *METHOD A: Percent of Oversize:* 0.9%
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)

[ ] *METHOD B: Percent of Oversize:* N/A
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)

[ ] *METHOD C: Percent of Oversize:* N/A
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)



AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

R-VALUE TEST DATA

ASTM D2844

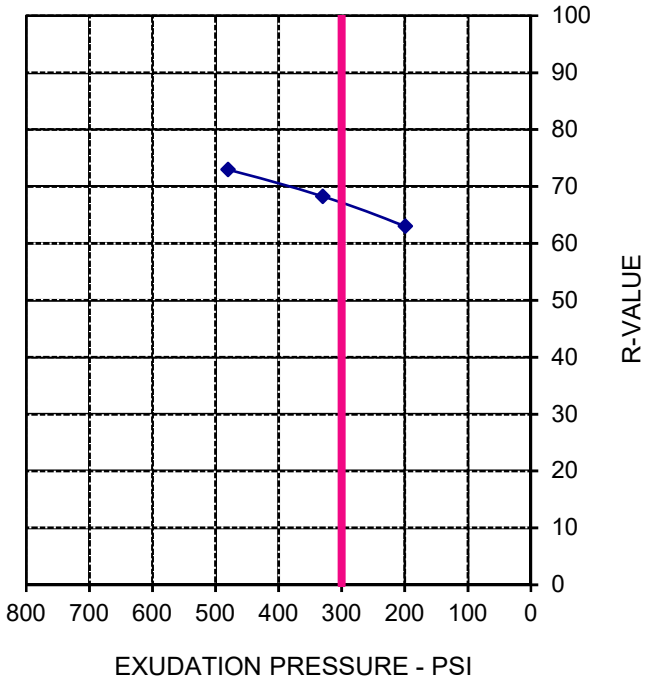
Project Name	DAX9 West Covina, CA	Tested By:	ST	Date:	06/03/20
Project Number:	20203313.001A	Computed By:	KM	Date:	06/08/20
Boring No.:	B-1	Checked By:	AP	Date:	06/09/20
Sample No.:	Bulk	Depth (ft.):	2-5		
Location:	N/A				
Soil Description:	Silty Sand				

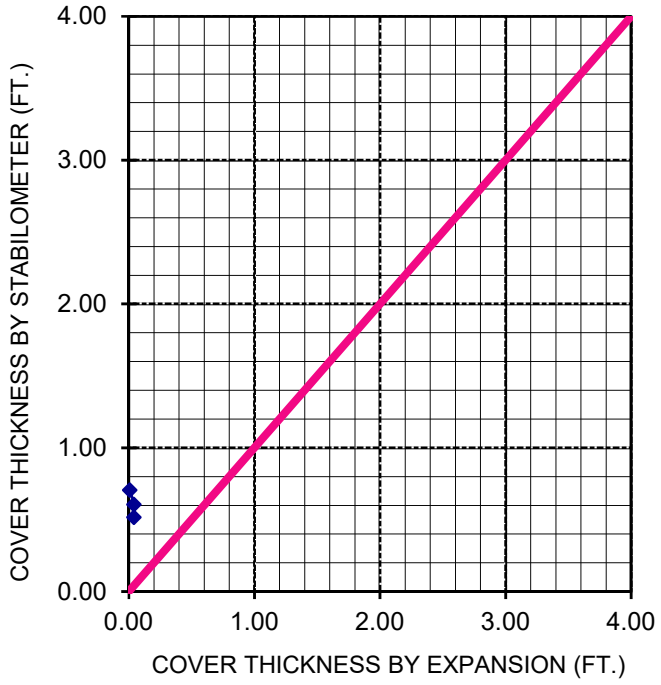
Mold Number	A	C	B	
Water Added, g	33	38	44	
Compact Moisture(%)	11.3	11.8	12.4	
Compaction Gage Pressure, psi	250	250	250	
Exudation Pressure, psi	480	330	199	
Sample Height, Inches	2.5	2.5	2.5	
Gross Weight Mold, g	3024	3042	3054	
Tare Weight Mold, g	1968	1969	1967	
Net Sample Weight, g	1056	1073	1087	
Expansion, inchesx10^{-4}	12	12	2	
Stability 2,000 (160 psi)	14/25	17/30	20/36	
Turns Displacement	5.00	5.03	5.05	
R-Value Uncorrected	73	68	63	
R-Value Corrected	73	68	63	
Dry Density, pcf	115.0	116.3	117.2	
Traffic Index	8.0	8.0	8.0	
G.E. by Stability	0.52	0.61	0.71	
G.E. by Expansion	0.04	0.04	0.01	

R-VALUE		
	By Exudation:	67
	By Expansion:	*N/A
	At Equilibrium: (by Exudation)	67

Remarks

Gf = 1.34, and 0.0 % Retained on the ¾"
*Not Applicable





AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

CORROSION TEST RESULTS

Client Name: Kleinfelder
Project Name DAX9 West Covina, CA
Project No.: 20203313.001A

AP Job No.: 20-0606
Date: 06/04/20

Boring No.	Sample No.	Depth (feet)	Soil Description	Minimum Resistivity (ohm-cm)	pH	Sulfate Content (ppm)	Chloride Content (ppm)
B-1	Bulk	2-5	Silty Sand	24250	7.2	40	37
B-5	Bulk	2-5	Clayey Sand	3458	8.1	37	44

NOTES: Resistivity Test and pH: California Test Method 643
Sulfate Content : California Test Method 417
Chloride Content : California Test Method 422
ND = Not Detectable
NA = Not Sufficient Sample
NR = Not Requested

APPENDIX C
Photo Log

Copyright 2020 Kleinfelder



1

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



2

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



3

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



4

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



5

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



6

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



7

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



8

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



9

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



10

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



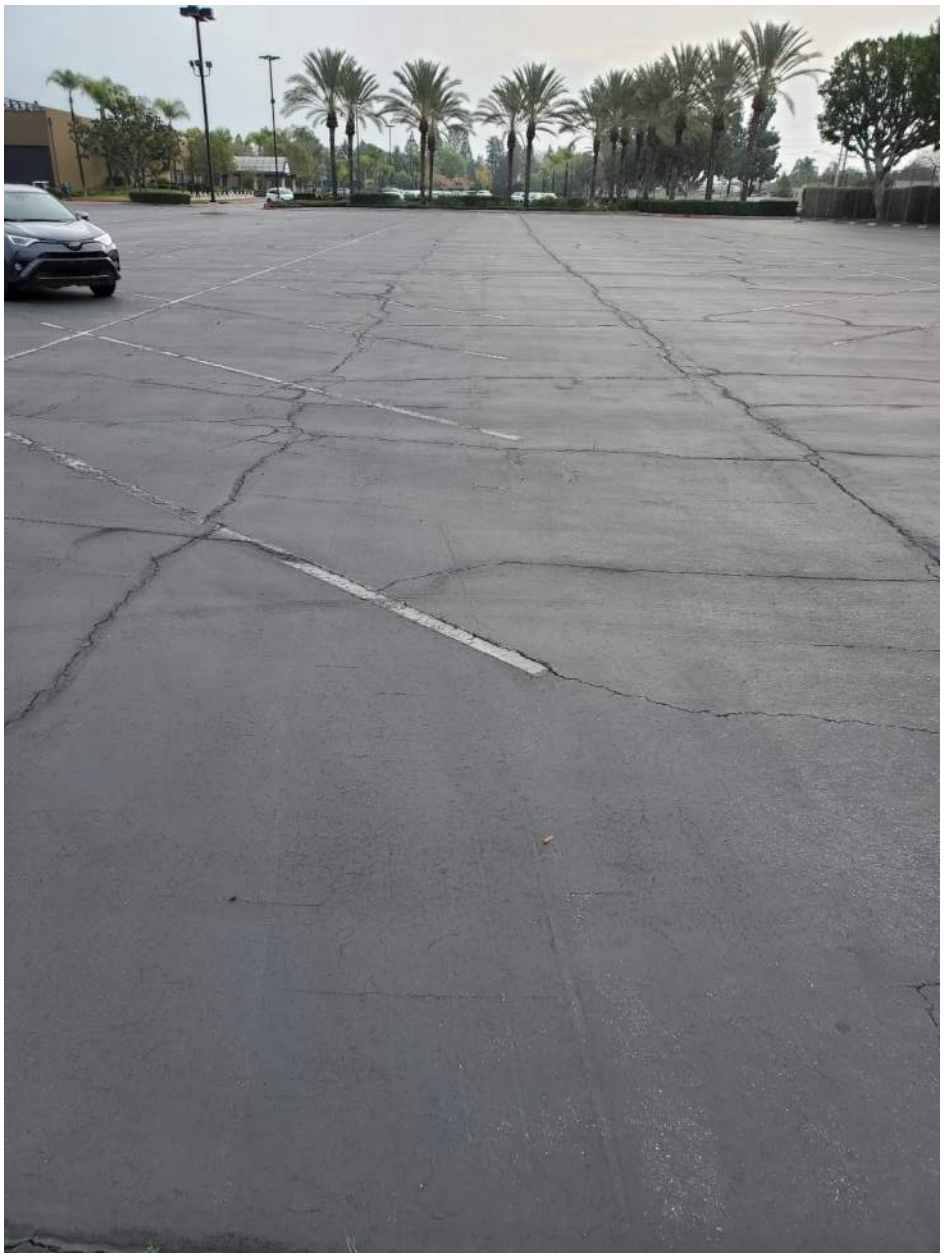
11

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



12

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



13

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



14

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



15

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



16

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



17

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



18

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



19

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



20

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



21

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



22

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



23

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



24

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



25

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



26

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



27

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



28

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



29

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



30

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



31

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



32

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



33

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



34

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



35

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



36

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



37

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



38

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



39

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



40

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



41

KLEINFELDER *Bright People. Right Solutions.* www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



42

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



43

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



45

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		

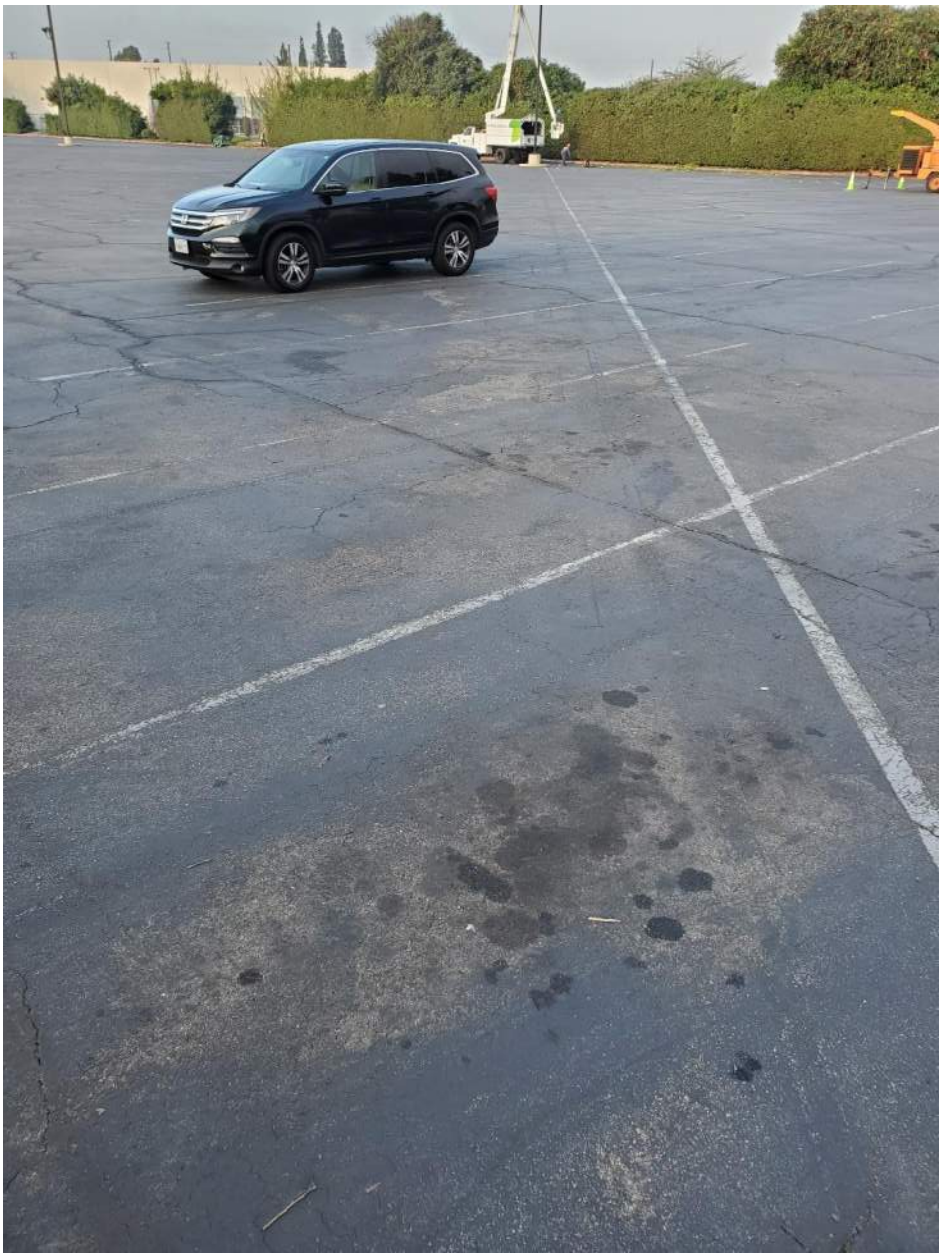


KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



47

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



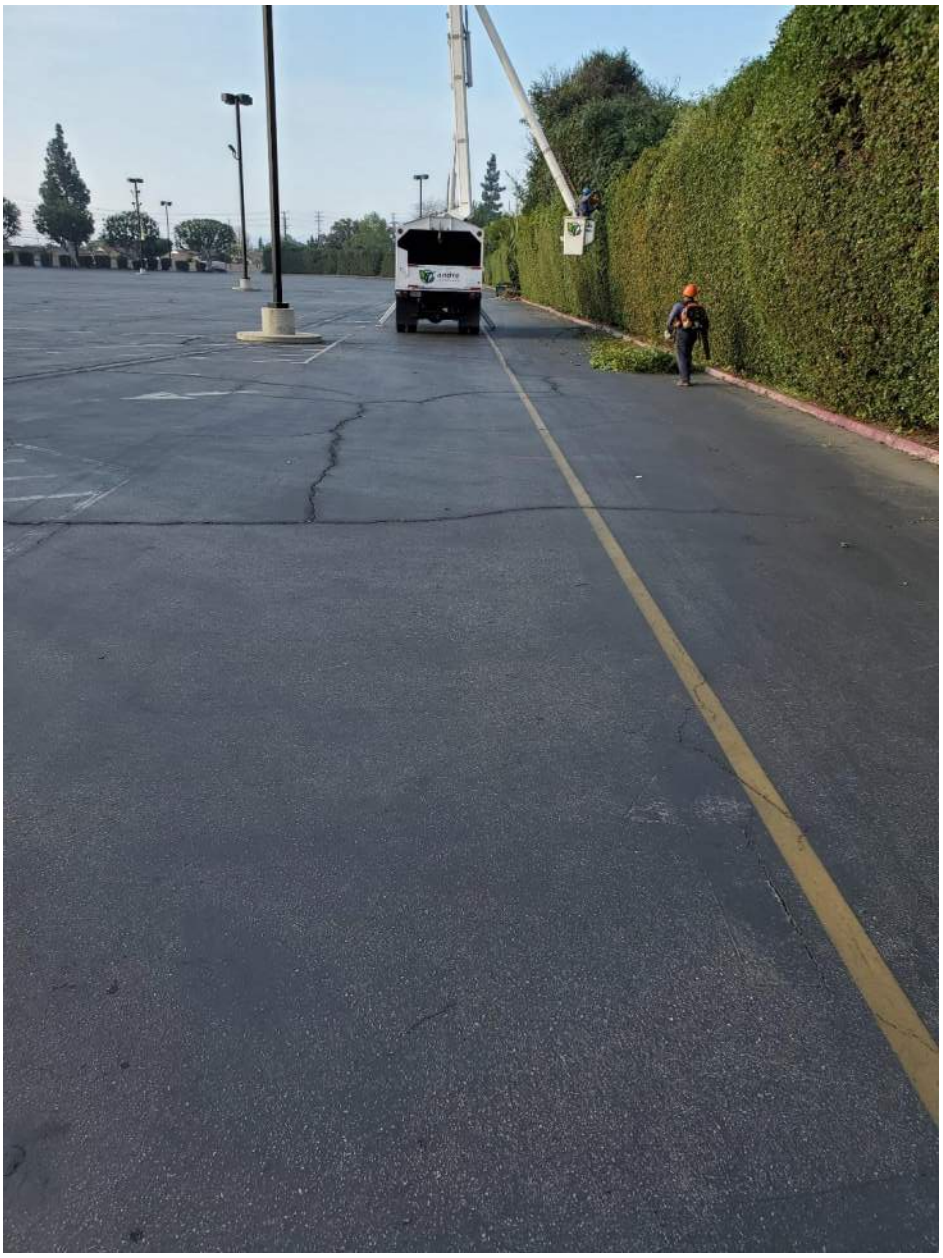
48

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



49

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



50

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements 1211 Badillo Street West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



51

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



54

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



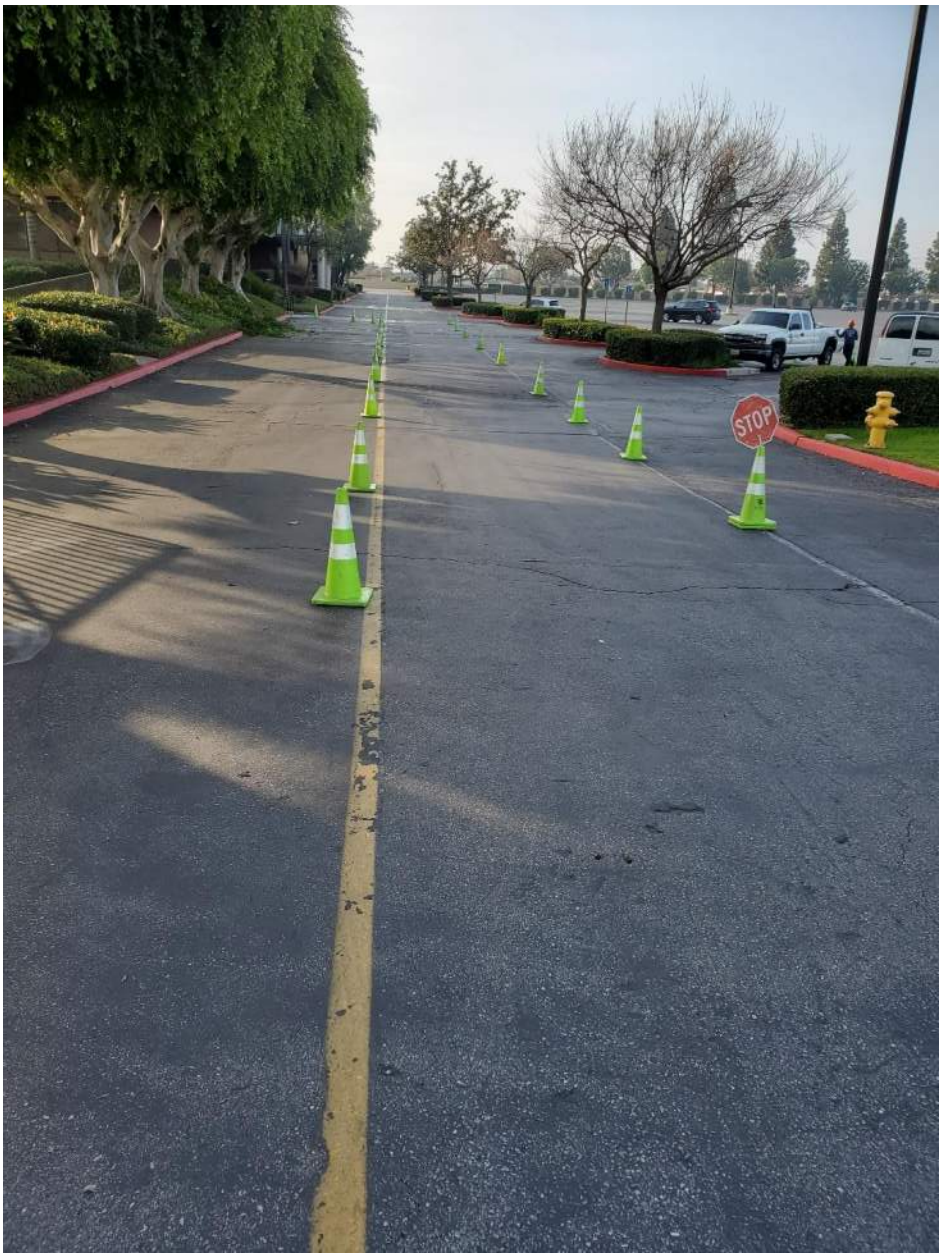
55

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



56

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



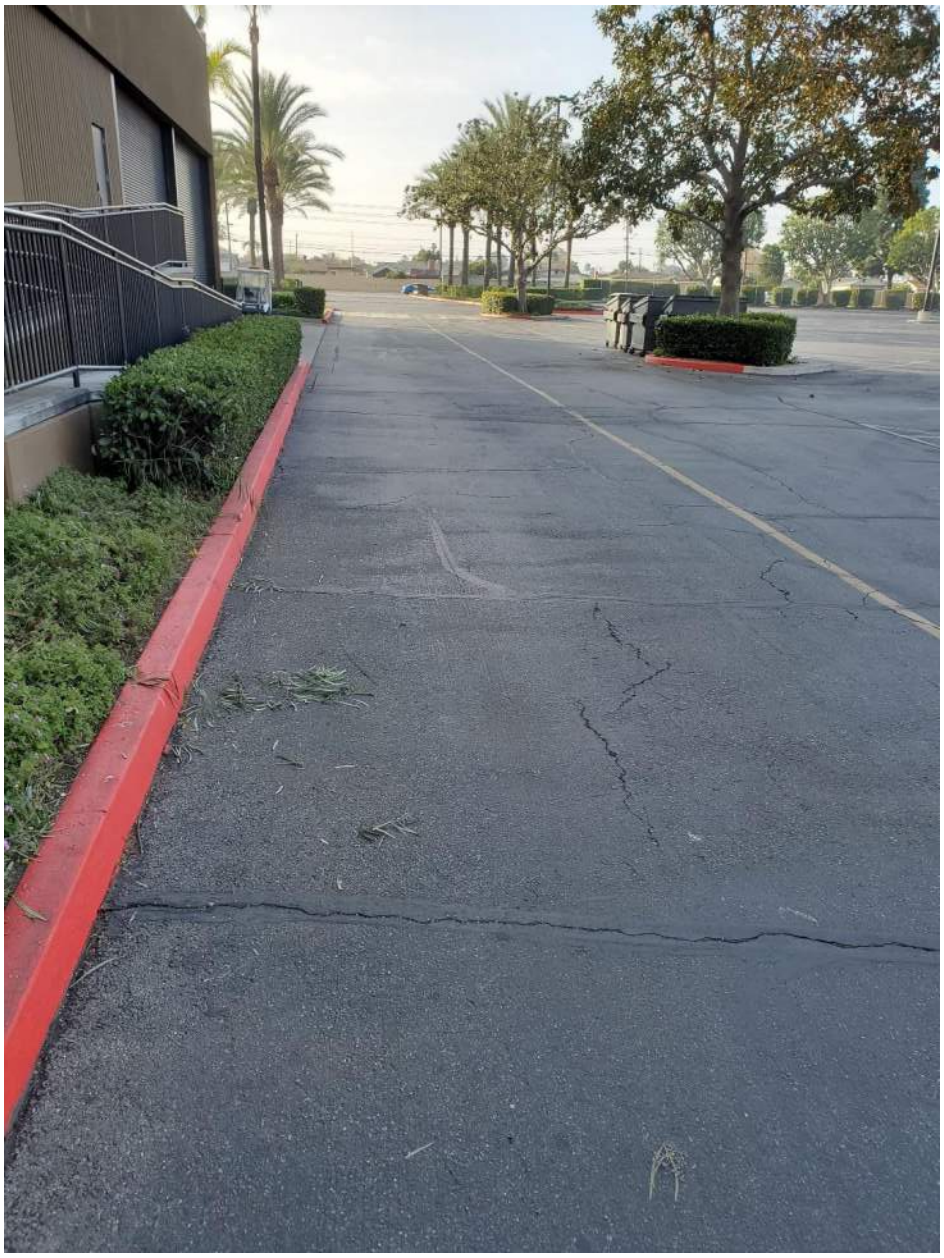
59

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



60

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



61

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



62

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



63

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



64

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



65

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



68

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



70

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



71

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



72

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



73

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



74

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



75

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



77

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



79

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



80

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



81

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



83

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



84

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



87

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



90

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



91

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



92

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



93

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



94

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



95

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



96

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



97

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



98

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



99

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



100

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



101

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



102

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



103

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



104

KLEINFELDER *Bright People. Right Solutions.* www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



105

KLEINFELDER *Bright People. Right Solutions.* www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



106

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



107

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		



108

KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20203313.001A	PAVEMENT PHOTO LOG	FIGURE:
	DRAWN: 02/2020		
	DRAWN BY: HTM		
	CHECKED BY: ZSJ	**Proposed DAX9 Warehouse Improvements** **1211 Badillo Street** **West Covina, CA 91790**	
	FILE NAME: APPENDIX C		

APPENDIX D
Infiltration Testing Results

Copyright 2020 Kleinfelder

Falling Head Test Data

Project No.: 20203313.001A
Project Name: DAX9 West Covina, CA

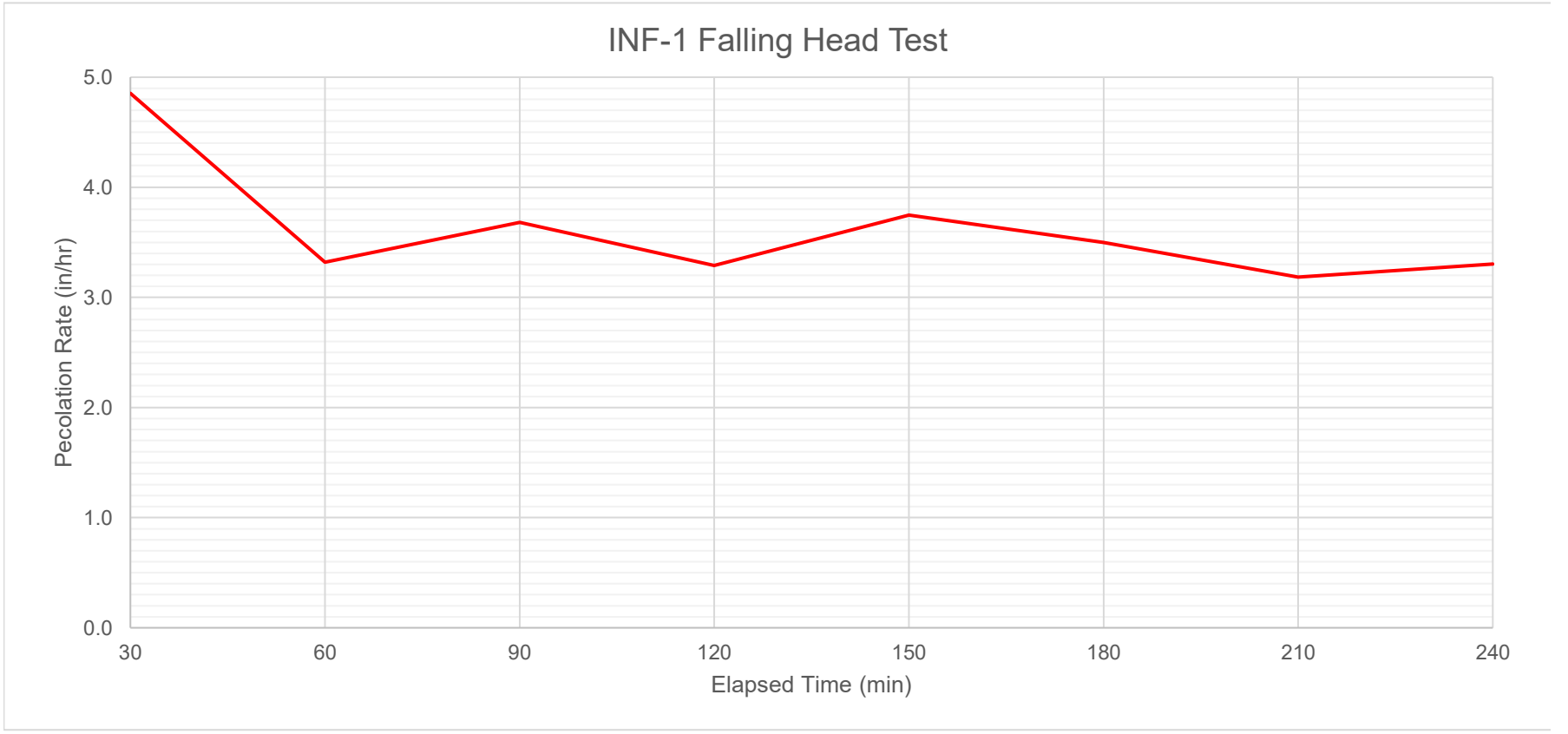
Date: 5/29/2020
Tested by: D. Dockendorf

Boring/Test Number:	INF-1	Measurement Method:	Water Level Indicator
Boring Diameter:	8 in	Liquid Description:	Water
Total Depth:	15.2 ft bgs	Water Depth (d1):	± 12 ft bgs
Earth Description:	SM	Presoak:	1 hour prior to testing
Time Interval:	10 minutes	Test Interval:	10 min

Start Time (hh:mm)	End Time (hh:mm)	Δ Time (min)	Initial Depth (ft bgs)	Final Depth (ft bgs)	Water Drop (ft)	Perc. Rate in/hr	Notes:
11:10	11:20	10	12.40	13.6	1.20	4.85	Start test
11:20	11:30	10	12.15	13.04	0.89	3.32	
11:30	11:40	10	12.14	13.13	0.99	3.68	
11:40	11:50	10	12.12	13.01	0.89	3.29	
11:50	12:00	10	12.10	13.12	1.02	3.75	
12:00	12:10	10	11.97	12.96	0.99	3.50	
12:10	12:20	10	11.90	12.82	0.92	3.18	
12:20	12:30	10	11.99	12.92	0.93	3.31	End of falling head test

Test-specific reduction factor (RFt) = 2
Site variability reduction factor (RFv) = 2
Long-term siltation reduction factor (RFs) = 2
Total reduction factor (RFT) = 8

Average measured percolation rate = 3.3 in/hr
Design infiltration rate = 0.42 in/hr



Falling Head Test Data

Project No.: 20203313.001A
Project Name: DAX9 West Covina, CA

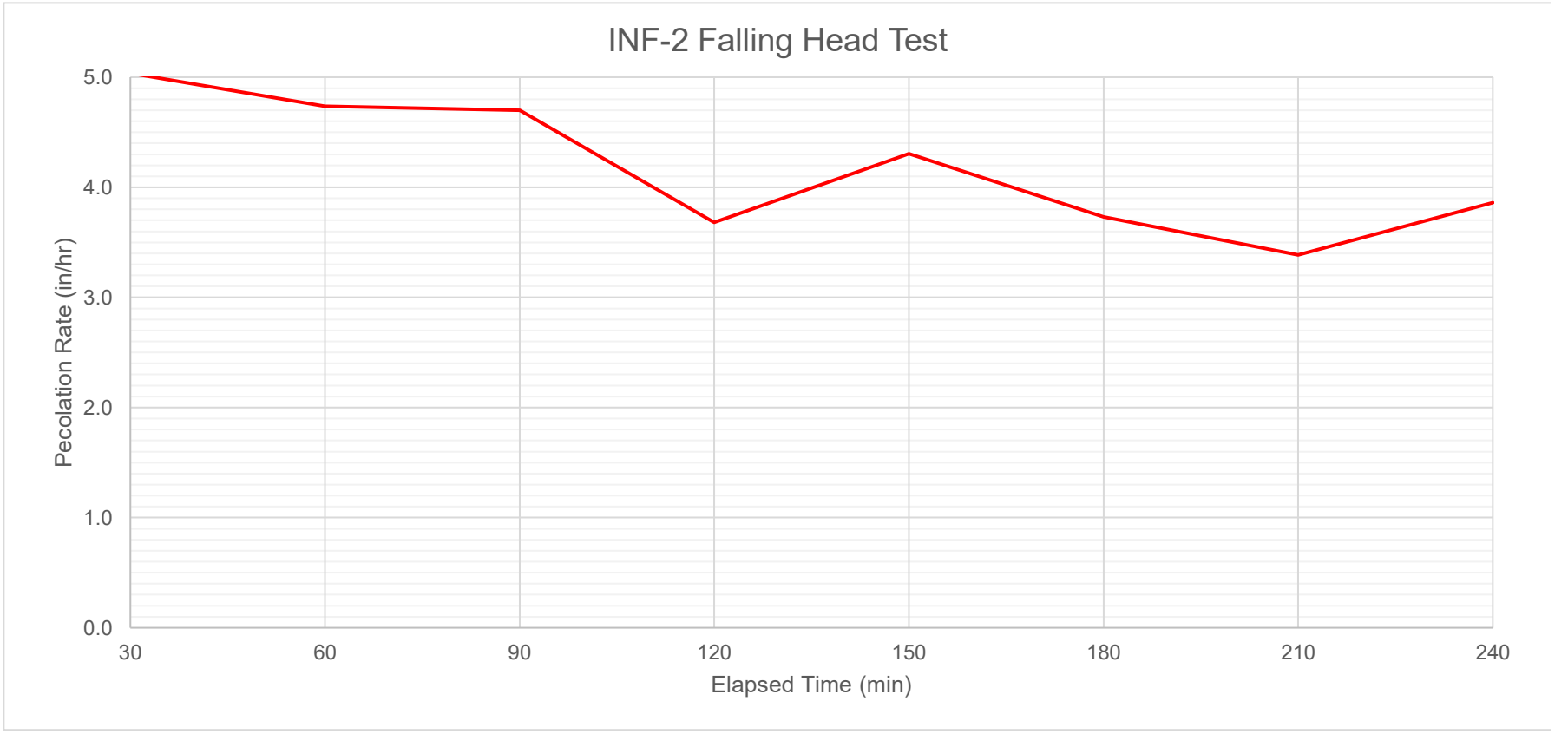
Date: 5/29/2020
Tested by: D. Dockendorf

Boring/Test Number:	INF-2	Measurement Method:	Water Level Indicator
Boring Diameter:	8 in	Liquid Description:	Water
Total Depth:	15.25 ft bgs	Water Depth (d1):	± 12 ft bgs
Earth Description:	SM	Presoak:	1 hour prior to testing
Time Interval:	10 minutes	Test Interval:	10 min

Start Time (hh:mm)	End Time (hh:mm)	Δ Time (min)	Initial Depth (ft bgs)	Final Depth (ft bgs)	Water Drop (ft)	Perc. Rate in/hr	Notes:
11:15	11:25	10	12.20	13.55	1.35	5.04	Start test
11:25	11:35	10	11.92	13.3	1.38	4.74	
11:35	11:45	10	12.02	13.35	1.33	4.70	
11:45	11:55	10	12.06	13.09	1.03	3.68	
11:55	12:05	10	12.10	13.29	1.19	4.31	
12:05	12:15	10	12.04	13.09	1.05	3.73	
12:15	12:25	10	12.05	13	0.95	3.39	
12:25	12:35	10	12.09	13.16	1.07	3.86	End of falling head test

Test-specific reduction factor (RFt) = 2
Site variability reduction factor (RFv) = 2
Long-term siltation reduction factor (RFs) = 2
Total reduction factor (RFT) = 8

Average measured percolation rate = 3.7 in/hr
Design infiltration rate = 0.46 in/hr



Falling Head Test Data

Project No.: 20203313.001A
Project Name: DAX9 West Covina, CA

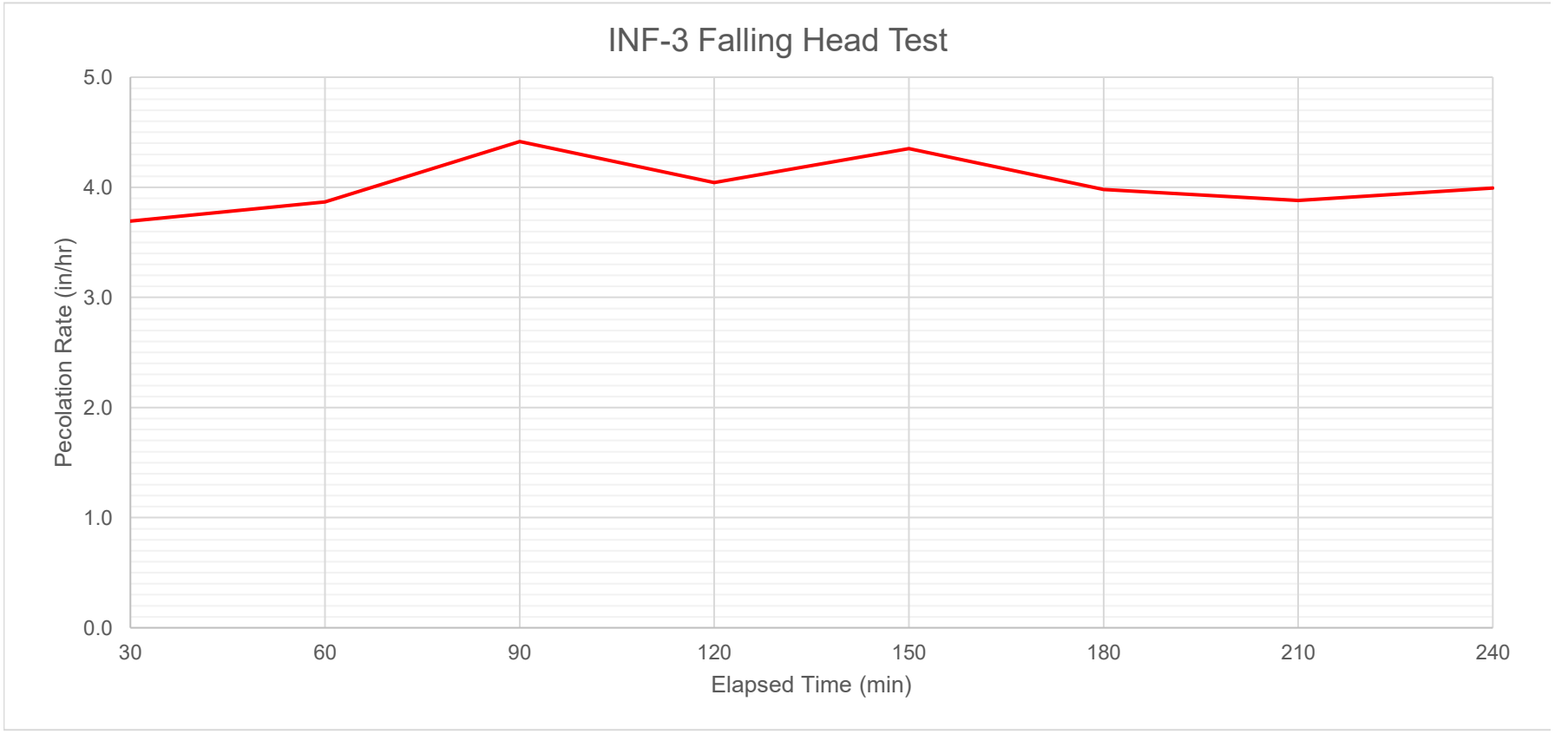
Date: 5/29/2020
Tested by: D. Dockendorf

Boring/Test Number:	INF-3	Measurement Method:	Water Level Indicator
Boring Diameter:	8 in	Liquid Description:	Water
Total Depth:	15.2 ft bgs	Water Depth (d1):	± 12 ft bgs
Earth Description:	SP-SM	Presoak:	1 hour prior to testing
Time Interval:	10 minutes	Test Interval:	10 min

Start Time (hh:mm)	End Time (hh:mm)	Δ Time (min)	Initial Depth (ft bgs)	Final Depth (ft bgs)	Water Drop (ft)	Perc. Rate in/hr	Notes:
13:50	14:00	10	12.15	13.14	0.99	3.69	Start test
14:00	14:10	10	12.17	13.2	1.03	3.87	
14:10	14:20	10	12.16	13.34	1.18	4.42	
14:20	14:30	10	12.22	13.28	1.06	4.04	
14:30	14:40	10	12.14	13.31	1.17	4.35	
14:40	14:50	10	12.23	13.27	1.04	3.98	
14:50	15:00	10	12.09	13.15	1.06	3.88	
15:00	15:10	10	12.12	13.2	1.08	3.99	End of falling head test

Test-specific reduction factor (RFt) = 2
Site variability reduction factor (RFv) = 2
Long-term siltation reduction factor (RFs) = 2
Total reduction factor (RFT) = 8

Average measured percolation rate = 4 in/hr
Design infiltration rate = 0.49 in/hr



Falling Head Test Data

Project No.: 20203313.001A
Project Name: DAX9 West Covina, CA

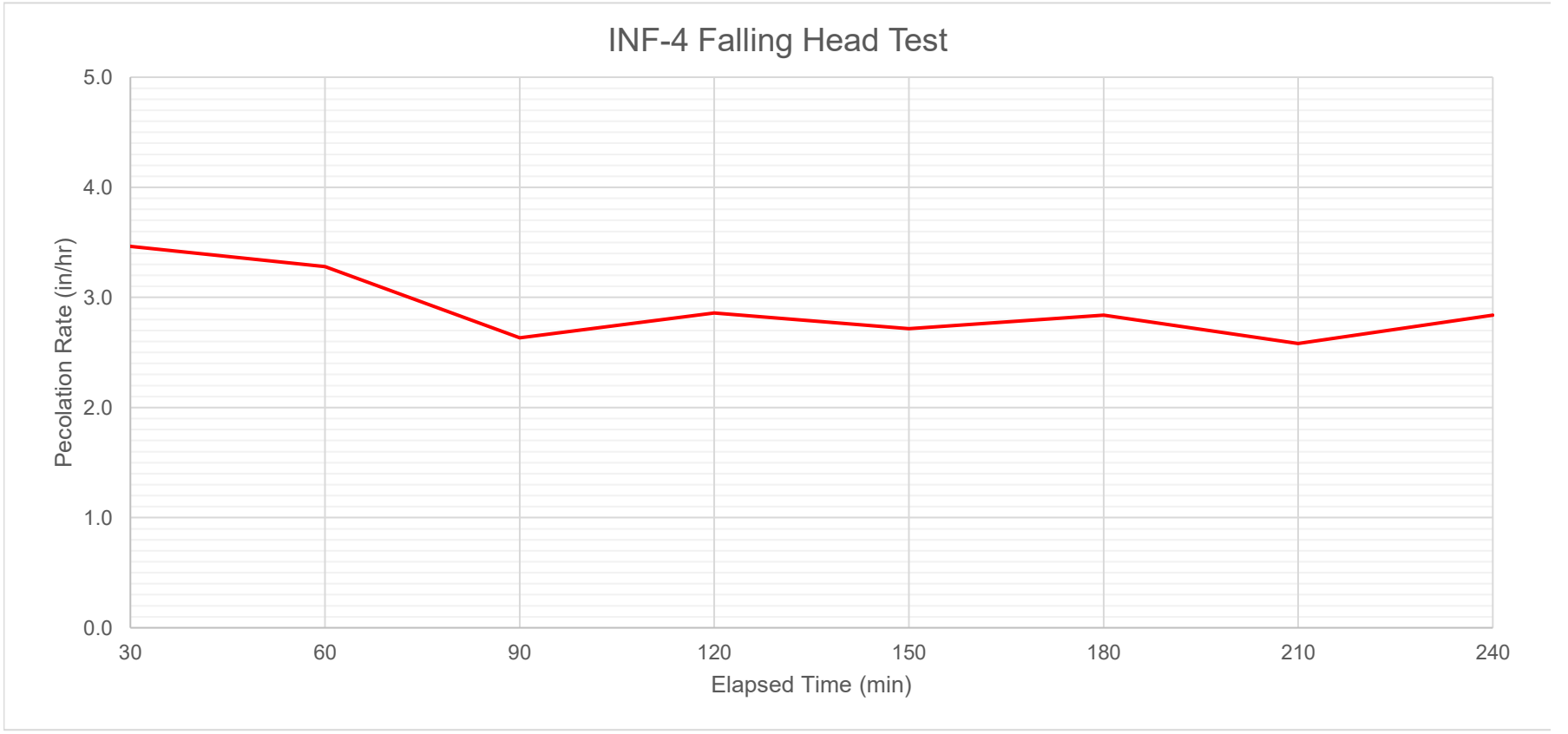
Date: 5/29/2020
Tested by: D. Dockendorf

Boring/Test Number:	INF-4	Measurement Method:	Water Level Indicator
Boring Diameter:	8 in	Liquid Description:	Water
Total Depth:	15.2 ft bgs	Water Depth (d1):	± 12 ft bgs
Earth Description:	SP-SM	Presoak:	1 hour prior to testing
Time Interval:	10 minutes	Test Interval:	10 min

Start Time (hh:mm)	End Time (hh:mm)	Δ Time (min)	Initial Depth (ft bgs)	Final Depth (ft bgs)	Water Drop (ft)	Perc. Rate in/hr	Notes:
13:55	14:05	10	12.11	13.05	0.94	3.46	Start test
14:05	14:15	10	12.00	12.92	0.92	3.28	
14:15	14:25	10	11.95	12.7	0.75	2.63	
14:25	14:35	10	12.01	12.81	0.80	2.86	
14:35	14:45	10	11.92	12.7	0.78	2.72	
14:45	14:55	10	11.90	12.72	0.82	2.84	
14:55	15:05	10	12.02	12.74	0.72	2.58	
15:05	15:15	10	12.07	12.85	0.78	2.84	End of falling head test

Test-specific reduction factor (RFt) = 2
Site variability reduction factor (RFv) = 2
Long-term siltation reduction factor (RFs) = 2
Total reduction factor (RFT) = 8

Average measured percolation rate = 2.8 in/hr
Design infiltration rate = 0.34 in/hr



Appendix E1

Phase I and Limited Phase II Environmental Site Assessments

Prepared for:
Amazon.com Services, Inc.
300 Boren Avenue North
Seattle, Washington

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Subject Property:
Amazon Site Code DAX9
1211 Badillo Street
West Covina, California 91790

Prepared by

Geosyntec consultants
520 Pike Street
Suite 2600
Seattle, Washington 98101

Project Number: PNR0651/267A

12 May 2020

EXECUTIVE SUMMARY

This Executive Summary presents the results of the Phase I Environmental Site Assessment (ESA) performed by Geosyntec Consultants, Inc. (Geosyntec) for the property located at 1211 Badillo Street, West Covina, California (the "Site" or "Subject Property"). This Phase I ESA was prepared in accordance with the scope of work, terms and conditions described in Geosyntec's proposal dated 9 August 2018 and Purchase Order #2D-03214194 issued on 19 March 2020. This Phase I ESA was performed in accordance with ASTM Standard E1527-13. The objective of performing this Phase I ESA was to identify, to the extent feasible, "Recognized Environmental Conditions" (RECs) at the Site as the "REC" term is defined by ASTM E1527-13. Geosyntec understands that Amazon.com Services, Inc. (Amazon) intends to lease this Site for use as a warehouse (Amazon Site Code DAX9).

The Site is an approximate 21-acre property that currently consists of one building surrounded by paved parking lots that is owned by Faith Church and is used as a school and church. The building on-Site was constructed in 1963 and is approximately 162,213 square feet. Prior to use as a school and church, the Site was owned by and operated by Honeywell Inc. Training and Control Systems Division from 1963 to 1988 and Hughes family of companies (associated with Honeywell) from 1988 until 1994. Honeywell/Hughes used the Site for the manufacturing and assembly of training and simulation systems and included a hazardous waste management unit (hazardous waste storage area [HWSA]) on the Site. In 1994, the Site was acquired by Faith Church.

The on-Site building was constructed in 1963 and renovations have been performed as recently as 1980. Buildings constructed earlier than 1981 are presumed to contain asbestos-containing materials (ACMs), and buildings constructed prior to 1978 are presumed to contain lead-based paints (LBPs). Reportedly, past ACM and LBP assessments and possibly also abatement has occurred at the Site; however, Geosyntec did not obtain any previous survey or abatement reports during preparation of this Phase I ESA. Additionally, Geosyntec did not observe or identify water damage or potential mold during preparation of this Phase I ESA.

The following provides a brief listing of the findings identified in accordance with their characterization as known RECs or *de minimis* conditions. No Controlled RECs (CRECs) or Historical RECs (HRECs) were identified.

Recognized Environmental Conditions (RECs)

- **Impacts from Historical Operations:** The Site was historically used as a manufacturing and assembly facility for flight simulators and electronic components, which reportedly generated wastes that were stored on-Site. The wastes reported included solvents, machine and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, and adhesives. Based on a 2008 Resource Conservation and Recovery Act (RCRA) facility assessment report, Hughes conducted a site assessment in September 1994

in accordance with a closure plan submitted to the Department of Toxic Substance Control (DTSC) in May 1994 in preparation for closure of the Site. Soil, soil vapor, and concrete samples were collected from the HWSA, loading docks, assembly and parts washing areas, dye and paint shop areas, and a machine shop. Soil vapor samples were analyzed for volatile organic compounds (VOCs) by a mobile laboratory. 1,1-dichloroethene (1,1-DCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and tetrachloroethene (PCE) were reportedly the only VOCs detected; however, the reporting limits were elevated compared to current screening levels. The maximum concentrations of VOCs detected in soil vapor were:

- 1,1-DCE: 2 micrograms per liter (µg/L; 2,000 micrograms per cubic meter (µg/m^3));
- TCA: 28 µg/L (28,000 µg/m^3);
- TCE: 4 µg /L (4,000 µg/m^3); and
- PCE: 5 µg/L (5,000 µg/m^3).

At the time of the investigation, soil vapor data was screened against applicable Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs). Using the DTSC's 2019 indoor air screening levels (assuming an attenuation factor of 0.03) for commercial land uses, the detections of TCE and PCE in soil vapor exceeded their respective indoor air screening levels of 100 µg/m^3 and 63 µg/m^3, respectively.

Soil sampling analytical results also indicated low levels of total petroleum hydrocarbons (9 to 62 milligrams per kilogram [mg/kg]), as well as pesticides 4,4' dichlorodiphenyldichloroethylene (4,4'-DDE) and 4,4' dichlorodiphenyltrichloroethane (4,4'-DDT) were detected at 0.059 and 0.02 mg/kg, respectively. Metals were detected below their maximum acceptable background levels for Southern California (Kearney Foundation, 1996). In addition, low levels of acetone, ethylbenzene, total xylenes, and 4-methyl-2-pentanone were detected in the concrete samples collected from the former HWSA area inside the existing building.

Based on these analytical results, the facility, including the HWSA, was granted closure on 23 November 1994. A 2019 Phase I ESA for the Site indicated that the facility was HREC based on the closed status and no further action granted to the facility in November 1994. However, review of the historical soil vapor data indicates select VOC concentrations are above current allowable screening levels indicating there may be a potential for vapor intrusion of VOCs at the Site; therefore, this finding is a REC.

De Minimis Conditions:

- **Historical Agricultural Land Use:** Historical Site documents and aerial photographs indicated that the Site was used for agricultural purposes since at least 1928 until 1960. Based on the timeframe of the observed clearings, it is possible that hazardous pesticides or herbicides were used on-Site; however, no evidence of pesticide/herbicide usage was found as part of this Phase I ESA, and no evidence of improper historical application of pesticides were found. Therefore, this finding is not a REC but rather a *de minimis* condition.

- **Historical Adjoining Railroad:** A railroad bordered the Site to the south by at least 1927. This location later became Badillo Street. Railroads can be associated with the use of petroleum products, pesticides, and heavy metals, which may have impacted shallow soils at the Site. However, because these uses cannot be ascertained and there is no evidence of on-Site impact, this finding is considered a *de minimis* condition.

Following investigation, it appears that "data gaps" as defined by ASTM exist for the Site. However, in Geosyntec's opinion, none are considered to be significant with respect to identification of additional RECs for the Site.

TABLE OF CONTENTS

EXECUTIVE SUMMARY ES-1

1. INTRODUCTION 1
   - 1.1 Purpose 1
   - 1.2 Scope of Services 1
   - 1.3 Significant Assumptions 2
   - 1.4 Limitations, Deviations, and Exceptions 2
   - 1.5 Special Terms and Conditions 3
   - 1.6 User Reliance 3

2. SITE DESCRIPTION 3
   - 2.1 Site Location and General Characteristics 3
   - 2.2 Site Characteristics and Current Uses 3
   - 2.3 Current Use of Adjoining and Nearby Notable Properties 4
   - 2.4 Physical Setting 4
     - 2.4.1 Topography and Geology 4
     - 2.4.2 Hydrology 5

3. USER-PROVIDED INFORMATION 5
   - 3.1 Title Records 5
   - 3.2 Environmental Liens or Activity and Use Limitations 5
   - 3.3 Specialized Knowledge 6
   - 3.4 Commonly Known or Reasonably Ascertainable Information 6
   - 3.5 Valuation Reduction for Environmental Issues 6
   - 3.6 Owner, Property Manager, and Occupant Information 6
   - 3.7 Reason for Performing This Phase I ESA 6
   - 3.8 Additional Information 6

4. RECORDS REVIEW 6
   - 4.1 Environmental Database Search 7
     - 4.1.1 Overview 7
     - 4.1.2 Results – Subject Property 7
     - 4.1.3 Results – Vicinity Sites 8
     - 4.1.4 Unless otherwise indicated, these sites are further discussed in Section 4.4.Orphan Sites 10
   - 4.2 Historical Use Information 10

TABLE OF CONTENTS (continued)

4.3 Property Tax Records 12
4.4 Local, County, State, and Federal Files 12
4.4.1 County Records 13
4.4.2 State Records 14
4.4.3 Federal Records 18
4.5 Client- or Owner-Provided Environmental Assessment Documents 19

5. SITE RECONNAISSANCE 20
5.1 Methodology and Limiting Conditions 20
5.2 Utility Service & Materials Management Provider Information 20
5.3 Interior and Exterior Observations 20
5.4 Adjoining Property Reconnaissance 22

6. INTERVIEWS 22
6.1 Interview with Current Owner/Occupant 22
6.2 Interview with Previous Owner/Occupant 22
6.3 Interview with Local Agencies 22

7. FINDINGS, OPINIONS, AND DATA GAPS 23
7.1 Findings and Opinions 23
7.2 Data Gaps 25
7.3 Conclusions 25

8. NON-SCOPE CONSIDERATIONS 26
8.1 Asbestos-Containing Materials (ACM) 26
8.2 Lead-Based Paint (LBP) 26
8.3 Water and Mold 26

9. REFERENCES 26

10. SIGNATURE BY ENVIRONMENTAL PROFESSIONAL 27

LIST OF TABLES

Table 1 Historical Records Review

TABLE OF CONTENTS (continued)

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Layout Map
Figure 3	Nearby Properties Map

LIST OF APPENDICES

Appendix A:	Site Photographs
Appendix B:	User-Provided Information
Appendix C:	Historical Records and Data
Appendix D:	Prior Reports
Appendix E:	Radius Database Search Report
Appendix F:	Environmental Professional Resumes

1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) was retained on behalf of Amazon.com Services, Inc. (Amazon or the client) to perform a Phase I Environmental Site Assessment (ESA) the property at 1211 Badillo Street, West Covina, CA (the Site or Subject Property). Geosyntec understands that Amazon intends to lease this Site for use as a warehouse (Amazon Site Code DAX9). The Subject Property location is depicted on Figure 1 (Site Location Map), a recent layout is provided on Figure 2 (Site Layout Map), and the Site vicinity is shown on Figure 3 (Nearby Properties Map).

1.1 Purpose

This Phase I ESA was conducted in general accordance with the scope and limitations of the guidance contained within the ASTM International (ASTM) Practice E1527-13. Deviations or exceptions to the guidance contained in the ASTM E1527-13 standard of practice are described in Section 1.4. The intent of Geosyntec's effort is to provide the User with a Phase I ESA that includes a search for the existence of potential or known surface or subsurface environmental impacts at the Subject Property. For the purposes of this Phase I ESA report, Amazon represents the "User," defined as "the party seeking to use Practice E 1527-13 to complete an *environmental site assessment* of the *property*…"

The Phase I ESA was conducted to identify, to the extent feasible, "Recognized Environmental Conditions[1]" (RECs) at the Site, as the "REC" term is defined by ASTM E1527-13. This REC definition eliminates from consideration a number of conditions that could fall under the general definition of "environmental" issues and focuses the Phase I ESA on known or potential releases of hazardous substances and petroleum products that Geosyntec believes could have impacted the soil and/or groundwater at the Site. Such conditions include radon, wetlands, etc.; unless in the case where these out of scope items are specifically included in the Client's scope of work (see Section 8).

1.2 Scope of Services

Geosyntec was authorized by Tracey Schwartz on behalf of Amazon to conduct the scope of work specified in Geosyntec's 9 August 2018 proposal and authorized under Amazon Purchase Order #2D-03214194 issued on 19 March 2020. The Phase I ESA scope of work included: (i) review of pertinent information/documents provided by Amazon; (ii) review of environmental databases for the Site and in the vicinity of the Site pursuant to the ASTM E1527-13 Standard; (iii) review of historical land usage via historical aerial photographs, fire insurance maps, city directories, and

[1] As defined by ASTM E1527-13, a Recognized Environmental Condition is: "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

U.S. Geological Survey (USGS) topographic maps, and past reports on the Subject Property, as available; (iv) a Site visit to perform a visual reconnaissance of the major Site features; and (v) a report. In addition, as non-scope items, Geosyntec also reviewed the building/structure age (if present), and if available, historical information regarding lead-based paint (LBP), asbestos-containing materials (ACM), and water and mold. These non-scope items are discussed in Section 8.

This Phase I ESA was prepared by and under the supervision of Kimberly Brandt, who is an "Environmental Professional" (as defined under the ASTM Practice E1527-13). Under the Environmental Professional's direction and oversight, the Site visit was conducted on 15 April 2020 by Joshua Nandi of Geosyntec and the report was drafted by Rose Propst and reviewed by Paige Farrell. The professional qualifications of the individuals above are presented in Appendix F.

1.3 Significant Assumptions

Except as may be noted in Geosyntec's proposal, no significant assumptions were taken into account by Geosyntec as part of this project.

1.4 Limitations, Deviations, and Exceptions

This Phase I ESA was performed according to the agreed upon scope of work with Amazon consistent with the ASTM Practice E1527-13, except as follows:

- Due to time limitations on preparing the Phase I ESA, review of agency files pertaining to the Site and surrounding properties was limited to online resources only.
- Geosyntec tried to obtain information to allow an interview but was unable to interview former owners/operators of the Site pursuant to ASTM E1527-13 guidance. Specifically, this inability to interview the prior owner/occupant affected our ability to identify details regarding operations of the former tenants of the building on-Site. This data gap has been considered in our opinion on Findings.

This Phase I ESA contains a property description and history, an environmental database review, a summary of visual observations made during the Site reconnaissance, and descriptions of information obtained during interview(s) of person(s) knowledgeable with the Subject Property. The findings and conclusions presented in this Phase I ESA are the result of professional interpretation of the information collected at the time of this study. The Phase I ESA does not necessarily include an exhaustive search of all available records nor does it include detailed assessment of all Phase I ESA findings. Therefore, Geosyntec cannot "certify" or guarantee that any property is free of environmental impairment; no warranties regarding the environmental quality of the property are expressed or implied.

1.5 Special Terms and Conditions

Except as may be noted in Geosyntec's proposal, no special contractual terms or conditions were taken into account as part of this project.

1.6 User Reliance

This Phase I ESA report has been prepared solely for the benefit of Geosyntec's client, Amazon.com Services, Inc., and its subsidiaries and affiliated entities. Geosyntec has issued the Phase I ESA report to Amazon, and grants the right to Amazon.com Services, Inc., and its subsidiaries and affiliated entities to rely on the report contents. Except as specifically set forth in Geosyntec's proposal to client to perform this work, no other party shall have the right to rely on Geosyntec's opinions rendered in connection with the Services without Geosyntec's written consent which may be conditioned on the third party's agreement to be bound to acceptable conditions and limitations similar to this Agreement. Please note that Geosyntec's consent to provide a right-to-rely on this report is subject to client's approval and to agreement to Geosyntec's terms and conditions associated with Geosyntec's performance of this specific scope of work.

2. SITE DESCRIPTION

This section provides a description of the key characteristics of the Site. This description is derived from information provided by the client and information gathered during the reconnaissance unless referenced otherwise.

2.1 Site Location and General Characteristics

The Site is an approximate 22-acre property (Los Angeles [LA] County Parcel ID 8434-015-018; referred to herein as the Parcel) located in West Covina, California. The Site consists of a building in the central portion of the Site and paved parking lots to the west, east, and south. Review of documents found on EnviroStor indicate the Site was occupied by Faith Church and Jubilee Christian School beginning in 1994. The Site is owned by Faith Church. The Site is surrounded by commercial warehouses and offices, residences, storage facilities, a hospital, and several gas stations. The Site location is shown in Figure 1, a Site layout is provided in Figure 2, and the nearby properties area shown on Figure 3. A legal description of the Subject Property was found on the LA County Assessor's website for assessment purposes in the current tax parcel/map information, which is provided in Appendix C.

2.2 Site Characteristics and Current Uses

The Site is developed with an approximately 162,213-square foot building that is currently used as a church and occupied by Faith Church and Jubilee Christian School. A small playground adjoins the building to the east, and the western, southern, and eastern portions of the Site are

developed with asphalt-paved parking lots. The portion of the Site north of the building is vegetated with grass. Landscaping adjoins the building on the southern and western sides, runs along the western, southern, and eastern perimeter of the Site, as well as in beds throughout the southern and eastern parking lots. The Site is bounded to the north by West San Bernardino Street, to the south by Badillo Street, by residences to the east, and by commercial warehouses and repair shops to the west.

2.3 Current Use of Adjoining and Nearby Notable Properties

Currently, the vicinity is a mix of commercial office use, commercial and/or light industrial warehouses, residences, and retail. Current uses are summarized below:

- North – West San Bernardino Road, followed by residences (Mountain View Venture), commercial offices (Edison – Public Works Department), various light industrial warehouses and engineering firms), Cutter Way and West Industrial Park Street, Las Palmas Middle School, and additional private residences;
- South – Badillo Street, followed by residences;
- East – Residences, followed by Kindred Hospital San Gabriel Valley and commercial offices; North Lark Ellen Ave is farther east followed by residences, a 7-Eleven, and Grove Center Elementary School to the southeast; and
- West – Covina Industrial Park, which consists of several auto maintenance/muffler shops, print shops, retail, flooring, and other various contractors, followed by HYI (shoe store and distributor) and Extra Space Storage; farther west is North Vincent Avenue, 7-Eleven, and an Arco.

2.4 Physical Setting

2.4.1 Topography and Geology

The Site is depicted on the USGS 7.5-minute quadrangle map for Baldwin, California. Geosyntec obtained a physical setting report for the area of the Site from Environmental Risk Information Services (ERIS). According to the ERIS report (Appendix E), the Site has an elevation of approximately 453 feet above mean sea level with a decreasing topographic gradient to the west. The online Web Soil Survey[2] identified Site soils largely as those part of the Palmview-Jujunga Complex, which consists of alluvial fan material derived from granite, consisting of a fine sandy loam and loamy sand. Subsurface stratigraphy at the Site reportedly consists of alluvium within the San Gabriel Basin to a depth of approximately 1,400 feet, then underlain by the Pleistocene-

[2] https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

aged San Pedro formation (DTSC, 2008). According to the Geologic Map of California,[3] the Site and Site vicinity is underlain by Pleistocene- to Holocene-aged marine and nonmarine sedimentary rocks, consisting of consolidated and unconsolidated alluvium, lake, playa, and terrace deposits.

2.4.2 Hydrology

According to the USGS quadrangle map, the San Dimas Wash, Big Dalton Wash, and Little Dalton Wash are approximately 0.8 miles to the north. The Site is located in an area of 0.2% chance flood hazard as indicated on the Federal Emergency Management Agency Flood Insurance Rate Map for the Site.

In general, groundwater flow direction may vary depending on area groundwater pumping, surface water bodies, land use and development, localized topography, and other macro and micro features. In 2008, it was reported that groundwater is approximately 185 feet below ground surface (ft bgs) in wells within a two mile radius of the Site, and groundwater flow is to the southwest with a relatively flat gradient (DTSC, 2008). More recent depth to groundwater information was not readily available for review.

A search of federal and state water well databases identified 28 well completion reports within one mile of the Site. The nearest mapped well was approximately 1,000 feet southeast of the Site. Vicinity wells identified in this search did not provide information relevant to the Site.

3. USER-PROVIDED INFORMATION

This section describes the information provided to Geosyntec by Amazon (the User of this Phase I ESA). Per ASTM E1527-13, a User questionnaire was provided to the user to inquire about specialized information related to the Site. To date, a completed questionnaire has not been provided to Geosyntec; however, Tracey Schwartz of Amazon indicated that she has no specialized knowledge of environmental conditions on the Site beyond that described in Section 3.3 below.

3.1 Title Records

Geosyntec was not provided with and did not review title records for the Site. A property title search was not included in the scope of Geosyntec's services.

3.2 Environmental Liens or Activity and Use Limitations

The User did not provide Geosyntec with records for liens or activity and use limitations for the Site.

[3] https://maps.conservation.ca.gov/cgs/gmc/

3.3 Specialized Knowledge

The User indicated it has no specialized knowledge of environmental conditions on the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

The User did not indicate it had commonly known or reasonably ascertainable information (as defined in AAI) regarding the Site.

3.5 Valuation Reduction for Environmental Issues

The User has not informed Geosyntec regarding whether or not the valuation of the Site has been reduced or otherwise impacted by environmental issues (as defined in AAI) at the Site.

3.6 Owner, Property Manager, and Occupant Information

For this Phase I ESA, the User supplied Geosyntec with the following contact for the Site: Damian Burke of Greenlaw Partners, who provided contact information for Dean Navarro, also with Greenlaw Partners.

3.7 Reason for Performing This Phase I ESA

Geosyntec understands that the Client engaged Geosyntec to perform this Phase I ESA for the Site to identify "Recognized Environmental Conditions" (as defined in ASTM E1527-13) and potential environmental liabilities associated with the Site in preparation for leasing the Site.

3.8 Additional Information

The User did not provide Geosyntec with additional information relevant to the Site.

4. RECORDS REVIEW

Geosyntec's records review consisted of the following, to the extent available and reasonably ascertainable within the timeframe of the report preparation: i) review of identified federal, state, and local environmental databases; ii) review of historical aerial photographs; iii) review of historical topographic maps; iv) review of city directories; v) review of select public and client/owner-provided records related to environmental matters; and vi) review of available property tax information.

4.1 Environmental Database Search

4.1.1 Overview

Geosyntec contracted with ERIS to provide portions of the records reviewed as described below. The environmental database search was performed by ERIS in an attempt to ascertain whether the Site or neighboring properties were suspected of having environmental conditions that could have impacted the surface or subsurface at the Site. Specific records and search distances (from the approximate Site boundaries) for the environmental databases were reported by ERIS to be consistent with ASTM Practice E1527-13 and are discussed in the ERIS Database Report (presented in Appendix E). Database descriptions are also included in the ERIS report.

The following sections discuss listings that are projected to be located upgradient of the Site and having reported (or suspected) contamination or that have the potential for significant contamination that could have impacted the Site (such as National Priorities List [NPL] or Resource Conservation and Recovery Act [RCRA] Corrective Action sites [CORRACTS]). The locations of these listed sites are shown on the Overview Map and Detail Map in the ERIS Report (Appendix E).

4.1.2 Results – Subject Property

Three listings were identified on the Site for Faith Community Church under the HAZNET database, which is a list of hazardous waste manifests received each year by the Department of Toxic Substances Control (DTSC). The waste codes from the manifests were identified in the ERIS report as those for polychlorinated biphenyls (PCBs)/material containing PCBs and asbestos-containing waste. Approximately 2.6 tons (5,200 pounds) of PCB-containing material were removed from the Site in 2002, and 6 tons (12,000 pounds) of asbestos-containing waste were removed from the Site in 2008. No additional information, including the amount of these materials transported from the Site or equipment/areas from which they were removed, were specified in the ERIS report.

Fifteen listings were identified for the Site under the address 1200 East San Bernardino Road, which has been identified as the Site address based on the EnviroStor listing for the Site (see Section 4.4.2). These listings were under Honeywell Inc. and Hughes Training Inc. under the EnviroStor, EnviroStor Hazardous Waste Facilities (HWP), Toxic Release Inventory System (TRIS), LA HMS, Emissions, LA County Certified Unified Program Agency (CUPA), RCRA CORRACTS, RCRA Treatment, Storage, and Disposal Facility (TSD), and RCRA Non-Generator databases.

4.1.3 Results – Vicinity Sites

ERIS identified thirteen sites (located within 1/8-mile or projected to be upgradient of the Site), in databases potentially indicative of release (e.g., leaking underground storage tanks [LUST], cleanup sites) or in a database indicative of solid waste disposal (SWF/LF) or land use concerns (e.g., historical military sites). Of these, the following were considered to have at least a moderate potential to have impacted the soil or groundwater at the Site:

- 1425 San Bernardino Road under SoCal Edison, approximately 55 feet northeast of the Site and hydraulically upgradient, is listed in the California Hazardous Materials Incident Report System (CHMIRS) database. Based on the information available in the ERIS entry, approximately 100 gallons of mineral oil leaked into the soil from a transformer in 2004. It appears this release occurred in the residential subdivision north of the Site. No additional information is available in the ERIS entry. This location is further discussed in Section 4.4.2.
- 1551 West San Bernardino Road under SoCal Edison: Customer Service Covina Office and Central Division Accounting, approximately 210 feet northwest and hydraulically cross- to upgradient of the Site, is listed in the Delisted Tank, California Environmental Reporting System (CERS) Haz, Emissions, Finds/Facility Registration System (FRS), Historical Hazardous Substance Storage (HHSS) information database, Historical Tank, LA County CUPA, and LA Hazardous Materials System (HMS) databases. Based on the information available in the ERIS entries, one underground storage tank (UST) was formerly located at this address, which has since been removed. No violations, releases, or additional information are reported in the ERIS entry. This location is further discussed in Section 4.4.2.
- 1313 West San Bernardino Road under Former Texaco 61-106-0191, 450 feet east-northeast of the Site and hydraulically upgradient, is listed in the Finds/FRS, HHSS, Historical Tank, LA HMS, and LUST databases. According to the information available in the ERIS entry, an unspecified volume of gasoline was released to soil in 1989. The case was supervised under the Los Angeles Regional Water Quality Control Board (LARWQCB) and LA Department of Public Works (DPW). Groundwater monitoring and vapor extraction was performed at the facility, soil was investigated in 1994 and 1995, and the facility was granted No Further Action (NFA) designation in 1996 by the LARWQCB. Details regarding the cleanup were not provided in the ERIS entry; however, additional documents were available from the State agencies and are described in Section 4.4.2.
- 1274 West San Bernardino Road under Shell Service Station, approximately 670 feet east of the Site and presumed to be hydraulically up- to cross-gradient to the Site, is listed in the Finds/FRS, LA HMS, RCRA Non-Generator, Delisted CERS Tank (CTNK), HHSS, Historical Tank, LA County CUPA, and Cleanup Sites databases. According to the

information and link available in the ERIS entries and, a 550-gallon waste oil tank is or was at this facility; a release was discovered (inferred to be from this tank) in 2002, which was remediated and closed under the LARWQCB and LA DPW in 2006. Based on the closure of this facility and its likely cross-gradient nature to the Site, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

- 1641 West San Bernardino Road under Society Cleaners and Iliana Uniform Service, approximately 845 feet northwest and is cross-gradient to the Site, is listed in the CERS Haz, Drycleaners, Finds/FRS, LA County CUPA, and RCRA Non-Generator databases. The chemicals used at this location are not reported in the ERIS entries, and no releases are reported at this location. No releases or cleanups are reported at this location. This location is further discussed in Section 4.4.2.

- 1680 West San Bernardino Road under Oakwood Management Group, Inc., N&M Property LLC, Covina or Vincent ARCO, Express Auto Repair, and Nemer Saab, approximately 900 feet north of the Site and presumed to be hydraulically up- to cross-gradient to the Site, is listed in the LUST, UST, CERS Haz, CERS Tank, Emissions, Finds/FRS, and Historical Tank databases. Based on the information available in the ERIS entries, an unspecified amount of solvent or non-petroleum hydrocarbon was released to soil in February 1997 from this location. The release was tracked under the LARWQCB and the case was closed in December 1997. This location is found to be northwest of the Site at the corner of North Vincent Avenue and San Bernardino Road. No additional information is provided in the ERIS report. This facility is further discussed in Section 4.4.1.

- 1450 Industrial Park Street under Gambro Incorporated American Membrane Division and Electric Melting Services, approximately 900 feet to the north and presumed to be hydraulically upgradient to the Site, is listed in the Finds/FRS, HHSS, Historical Tank, and RCRA Small Quantity Generator databases. Based on the information available in the ERIS entries, at least four historical tanks were or are at this location. No information related to the volume, contents, or presence of these tanks, and no releases were identified. No additional information was found in the Los Angeles County database. However, since no releases were identified at this location, it is unlikely this facility has adversely impacted the Site.

- 1630 West Industrial Park Street under Haemonetics Manufacturing, Cutter Laboratories (and similar), and MedSep Corp, approximately 0.2 miles northwest of the Site and hydraulically up- to cross-gradient to the Site, is listed in the CERS HAZ, HMIRS, LA HMS, Emissions, Finds/FRS, HSS, Historical Tank, LA County CUPA, RCRA Non-Generator, RCRA TSD, and TRIS databases. Under the HMIRS listing, a package that had been delivered to this location released a biological substance (blood) which was contained in a disposal drum. Under the TRIS listings for MedSep several releases of di(2-

ethylhexyl)phthalate totaling 365,045 pounds have occurred from 1987 to 1999 under the transfer code M72; this code indicates the total amount of a chemical that was transported offsite to a landfill or surface impoundment. Since no listings indicate a release to the environment at the Haemonetics/MedSep location, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

- 545 Rimsdale Avenue North under US Postal Service Covina, approximately 0.4 miles to the east-northeast and hydraulically upgradient to the Site, is listed under the LUST database. Based on the information available in the ERIS entry, an unspecified volume of gasoline was released to soil in 1993. The facility was assessed later that year and closed under the LARWQCB and LA County DPW in 1996. No additional information was provided in ERIS for this location. This facility is further discussed in Section 4.4.2.
- 600 North Rimsdale Avenue under Conrac Corp – Conrac Division, approximately 0.4 miles to the east-northeast, is listed under the CERCLIS, CERCLIS NFRAP, and SEMS Archive database. No specific data was included in the ERIS entries.

Unless otherwise indicated, these sites are further discussed in Section 4.4.2.

4.1.4 Orphan Sites

ERIS identified one "orphan site" which could not be mapped by ERIS due to the lack of sufficient address information. The location of this orphan site (Badillo Substation) was researched and found to be located approximately 930 feet west of the Site. Approximately 3.97 tons of asbestos-containing material were removed from this location in 1992; it is Geosyntec's opinion this removal process is unlikely to have adversely impacted the Site.

4.2 Historical Use Information

Geosyntec contracted ERIS to provide standard historical records, including aerial photographs, topographic maps, fire insurance maps, and city directories. The following documents were provided to Geosyntec for review and are included in Appendix E:

- Historical aerial photographs – 1928, 1938, 1948, 1952, 1960, 1964, 1972, 1980, 1987, 1995, 2005, 2010. 2012, 2014, 2016, and 2018;
- Historical topographic maps – 1894, 1897, 1898, 1904, 1927, 1953, 1966, 1972, 1981, and 2015;
- Fire insurance maps – Requested, but no coverage was identified by ERIS; and
- City directories – 1951, 1962, 1966, 1972, 1975, 1979, 1986, 1991-1991, 1994-1995, 2002, 2006, 2010, 2014, and 2019.

Additional aerial photography was reviewed using GoogleEarth for the following years: , 1995, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2013, 2014, 2015, 2016, 2017, and 2018 and using HistoricAerials.com for the following years: 1948, 1952, 1953, 1954, 1964, 1965, 1972, 1977, 1980, 1995, 2003, 2004, 2005, 2009, 2010, 2012, 2014, and 2016. Additional topographic map review was performed using HistoricAerials.com for the following years: 1897, 1898, 1902, 1904, 1908, 1912, 1923, 1927, 1932, 1937, 1941, 1946, 1955, 1960, 1967, 1975, 1982, 2012, 2015, and 2018. A summary of the findings from the review of the historical sources is provided in Table 1 and is summarized below:

- Site – Based on aerial photograph review, the Site appears to have been used for agricultural purposes since at least 1928 until 1960. It was bounded to the north by San Bernardino Road, to the west by San Dimas Wash, and to the south by a Pacific Electric railroad line that later became Badillo Street. In 1938, a structure was constructed in the northern portion of the Site that appeared to be a residence and farming equipment storage location; the remainder of the Site is still being used for agricultural purposes. Between 1952 and 1960 additional structures had been added to the north-central portion of the Site. By 1964, the current building and western parking lot had been constructed on the Site, and the structure that had previously occupied the northern portion of the Site had been demolished and removed. The Site occupant at 1200 San Bernardino Road is listed as Honeywell Inc. or Honeywell Sales and Service from 1975-1979. Three smaller outbuildings were shown south of the building around 1977-1980, and the area adjoining the building to the south appears to have been walled in and used for storage, based on aerial photographs. A dark area on apparently unpaved ground can be seen east of the building in the 1980 aerial photograph. By 1995, the southern outbuildings had been removed and the area east of the building was used for baseball diamonds. The Site is listed under 1211 Badillo Street by 2001 and occupied by Faith Community Church, the current tenant. By 2003, the southeastern baseball diamond had been paved over to use as a parking lot, and a playground was visible along the eastern side of the building; additionally, the walled-in area that had previously been used for apparent storage had been removed and replaced with landscaping based on aerial photographs. By 2009, the entire eastern portion not occupied by the playground had been converted to parking lots, and the Site layout remained apparently unchanged through 2018.
- Surrounding vicinity –Based on earliest topographic maps from 1894, the greater Site vicinity was largely undeveloped except for scattered residences throughout mostly agricultural land. The Southern Pacific railroad was approximately 0.5 miles north of the Site. The San Dimas Wash is shown north of the Site and Walnut Creek can be partially seen south of the Site. By 1927, the Pacific Electric Railroad was shown adjoining the Site to the south and running east-west. Three gravel pits are shown northwest of the Site and appear to be portions of the San Gabriel Wash being mined. Aerial photographs around 1928 show the Site vicinity is almost exclusively orchard-based agriculture with scattered

residences in the vicinity. The surrounding vicinity developed slowly into mostly residences between 1928 and 1946 based on topographic maps. By 1954 the surrounding areas had been considerably developed into residential subdivisions to the north, east, west, and south of the Site, and the Kindred Hospital was shown to the east of the Site by around 1960. The properties directly north and west of the Site were not developed until around 1972-1980 and were developed into industrial-style buildings including warehouses and storage facilities. The Site vicinity grew more slowly after 1980 (additional apartment buildings), and by 2007, the Site vicinity largely resembled its current configuration. Nearby properties of note in the city directories were Sparkle and Society Cleaners, northeast and northwest of the Site, respectively. Review of city directories indicated that Sparkle Cleaners operated at its location, approximately 0.5 miles northeast and hydraulically cross-gradient to the Site, from at least 1962 to 1986, and Society Cleaners operated at its location, approximately 845 feet northwest and hydraulically cross-gradient to the Site, from at least 1962. Other nearby notable properties include multiple automotive and muffler shops north of the Site and adjoining the Site to the northwest. Several gasoline stations are listed along San Bernardino and Badillo and correspond to the intersections of San Bernardino Road and North Lark Ellen Avenue to the northeast, as well as the existing Arco northwest of the Site at the intersection of North Vincent Avenue and San Bernardino Road. There also appears to have been another gasoline station (Chevron) west of the Site at the intersection of Badillo Street and North Vincent Avenue based on city directory listings.

In summary, the review of aerial photographs, topographic maps, and city directories revealed usages (agriculture, railroads, petroleum storage, and commercial/industrial, particularly tenancy by an aerospace manufacturer) that could be indicative of hazardous materials/chemical storage, management/usage, or disposal at the Site or in the immediate vicinity that could pose a threat to the soil and/or groundwater quality at the Site. However, in this review, Geosyntec noted no definitive features showing chemical management, chemical spills or evidence of waste disposal on or into the ground at the Site.

4.3 Property Tax Records

Geosyntec searched online Los Angeles Assessor records for real estate and owner information related to the Site. The construction date of the building on-Site is listed as 1963 with improvements made in 1980. The Site code corresponds to its use as a church. Owner information was not listed. The retrieved tax map parcel information is provided as Appendix C to this report.

4.4 Local, County, State, and Federal Files

Geosyntec searched local, county, and state agencies online databases to search for records regarding the Site. Relevant information is summarized below.

4.4.1 County Records

Geosyntec searched the Los Angeles County Well Viewer, environmental health records, online building records, and the Department of Public Works (DPW) online file review for underground storage tanks (USTs). Geosyntec identified the United Rock Products Pit #2 landfill at 1245 E. Arrow Hwy in Irwindale, which maps 2.2 miles to the northeast but appears to actually be located 4.4 miles to the northwest near the Cal Arrow Enterprises landfill at 1270 Arrow Highway. No matching addresses were found for 1200 or 1211 San Bernardino Avenue (or West or East San Bernardino Avenue/Ave), or 1200 or1211 West/East Badillo Street/St. A tax lot description was included in the Parcel Report included in Appendix C.

Geosyntec searched the DPW UST online file for several surrounding properties identified in the ERIS report. The following summarizes the findings of the review:

- 1551 West San Bernardino Road under SoCal Edison: Customer Service Covina Office and Central Division Accounting, approximately 210 feet northwest and hydraulically cross- to upgradient of the Site, was found under a Los Angeles Regional Water Quality Control Board (LARWQCB) case referral. In a letter from 20 July 2015, a letter from the LARWQCB indicated one 1,000-gallon UST that had stored diesel was removed from this location on 2004. The tank was reportedly situated 8 feet bgs and it was assumed by the LARWQCB that piping was abandoned in place. SoCal Edison performed an assessment in 2008 and collected soil samples from 11 borings to a maximum depth of 41 feet bgs. Samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline and diesel, volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and toluene (BTEX), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE) and tertiary amyl methyl ether (TAME). Of these constituents, only TPH-diesel and benzene were detected above the reporting limits at 26 milligrams per kilogram (mg/kg) and 3.4 micrograms per kilogram (µg/L), respectively. Groundwater was estimated at over 120 feet bgs and inferred that it was not impacted based on the results of the soil analyses. Based on these results, the LARWQCB concluded no further action (NFA) or additional investigations were required at this location and NFA was granted in the 20 July 2015 letter. Based on this closure and no apparent impacts to groundwater or the Site, it is Geosyntec's opinion that this location is unlikely to have adversely impacted the Site.

- 1680 West San Bernardino Road under Oakwood Management Group, Inc., N&M Property LLC, Covina or Vincent ARCO, Express Auto Repair, and Nemer Saab, approximately 900 feet north of the Site and hydraulically up- to cross-gradient of the Site, was identified on GeoTracker. No documents were found on GeoTracker under the LUST case; the case summary indicated the potential contaminants of concern were "other solvent or nonpetroleum-related hydrocarbon" and the cleanup status is listed as completed and

closed as of 23 December 1997. Two permitted USTs are registered at this location under N&M Property LLC. This location was found in the DPW UST database that indicated a site assessment and remedial action investigation had been performed at this location; the actual report could not be located. The letter from the DPW reviewed the assessment report and concluded no further action was needed at this location as of 23 December 1997. Based on the NFA closure and this location's orientation northwest of and cross-gradient of the Site, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

4.4.2 State Records

Geosyntec searched the State Water Resources Control Board GeoTracker database[4] and the DTSC EnviroStor[5] database for information relevant to the environmental condition of the Site and vicinity properties. Several locations, including the Site, found in the ERIS Radius Report were researched using State databases and are discussed below.

1200 East San Bernardino Road/1220 West San Bernardino (the Site)

The Site is listed under Honeywell Inc. and Hughes Training Inc. This listing was mapped approximately 0.5 miles southwest of the Site on EnviroStor but corresponds to the Site based on the EnviroStor description and associated documents. Geosyntec reviewed the DTSC RCRA Facility Assessment dated 26 June 2008. A copy of the RCRA Facility Assessment is included in Appendix D, and supporting documents related to treatment and disposal of wastes are included in Appendix C.

This report indicated that the facility had been occupied by Honeywell Incorporated – Training and Control Systems Division (Honeywell) from 1963 to 1988, then by Hughes Aircraft Company from 1989 to 1994. Flight simulators and electronic components were manufactured and assembled at this facility. From 1981 to 1993, the facility contained one hazardous waste management unit (called the hazardous waste storage area [HWSA]), which was reportedly not operated by Honeywell. Solvents, machine and hydraulic oils, waste paints, PCB-containing light ballasts, spent batteries, acids, adhesives, and empty containers were stored in the HWSA before being characterized and sent for off-Site disposal. The HWSA was located south of the on-Site building and was approximately 930 square feet in size and had a reported capacity of seventy-six 55-gallon containers. A degreaser/clarifier area was also identified as having been located within the on-Site building. The facility was also reportedly used to treat some acid wastes generated on-Site, which were then discharged to the sewer. Soil samples were reportedly collected adjacent to two clarifiers and in a drum storage area in 1989; these samples reportedly did not indicate impacts of organic constituents and the inorganic constituents detected reportedly did not exceed regulatory limits at the time. Review of the laboratory data for these samples indicates pH, metals, and select

[4] https://geotracker.waterboards.ca.gov/
[5] https://www.envirostor.dtsc.ca.gov/public/

VOCs were analyzed, indicating pH levels were mostly neutral (around 7), several metals were detected below background levels, and chloroform, methylene chloride, di-n-butyl phthalate were detected at low levels in soil, as were several pesticides. Manufacturing-related operations ceased in March 1993, and Hughes submitted a closure plan to the DTSC in May 1994. Hughes performed an assessment at the Site in September 1994, including soil, concrete, and soil vapor sampling. Groundwater was not investigated.

Soil vapor samples were collected at 37 locations, at depths ranging from 5 to 15 feet bgs. These sample areas focused on the HWSA and former degreaser/clarifier area in the northwestern portion of the building, two truck docks, an assembly and parts washing area, dye and paint operation areas, and a machine shop. The samples were analyzed by a mobile laboratory for VOCs. 1,1-dichloroethene (1,1-DCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and tetrachloroethene (PCE) were reportedly the only VOCs detected; however, the reporting limits were elevated. The results indicated that:

- 1,1-DCE was detected at concentrations ranging from 1 to 2 µg/L (1,000 to 2,000 µg/m^3);
- TCA was detected at concentrations ranging from 1 to 28 µg/L (1,000 to 28,000 µg/m3);
- TCE was detected at concentrations ranging from 1 to 4 µg /L (1,000 to 4,000 µg/m3); and
- PCE was detected at concentrations ranging from 1 to 5 µg/L (1,000 to 5,000 µg/m3).

These concentrations were screened using the USEPA Preliminary Remediation Goals (PRGs) for residential soil at the time of the investigation (1994). In the 2008 report, these concentrations were also screened using the 2004 USEPA PRGs, and were found to be below the screening levels. Based on the locations of the soil vapor probes where detections occurred, the DTSC indicated the HWSA did not cause a release to soil and the VOC detections appeared to be a result of the degreaser or clarifier previously used on-Site, near the western entrance of the building.

In addition, soil borings were advanced on the Site in the northeastern corner of the Site, along central-southern boundary, and in the former HWSA footprint. Samples were collected from depths ranging from 0.5 to 5 ft bgs and were analyzed for VOCs, metals, organochlorine pesticides (OCPs), PCBs, TPH, and pH. TPH was detected ranging from 9 to 62 milligrams per kilogram (mg/kg), and 4,4' Dichlorodiphenyldichloroethylene (4,4'-DDE) and 4,4' Dichlorodiphenyltrichloroethane (4,4'-DDT) were detected at 0.059 and 0.02 mg/kg, respectively, and below their respective USEPA residential soil PRGs. 4,4-Dichlorodiphenyldichloroethane (4,4-DDD) was not detected in the soil samples. Reportedly, VOCs were not detected in the soil samples. Metals concentration were below the total threshold limit concentration limits.

Eight concrete samples from the HWSA located inside of the building were also collected and analyzed for VOCs. Acetone, ethylbenzene, total xylenes, and 4-Methyl-2, Pentanone were detected at maximum concentrations of 0.6, 0.003, 0.025, and 0.02 mg/kg, respectively. These concentrations were below the USEPA residential soil PRGs.

Based on the results of the soil, soil vapor, and concrete sampling, DTSC determined the Site met the conditions approved in the closure plan and granted the facility closure on 23 November 1994. A request for the RCRA Facility Assessment questionnaire was sent to Faith Church in 2008, as the facility had previously been used as a treatment, storage, or disposal facility in the past, and although closure had been granted in 1994, completeness of corrective action needed to be verified. The questionnaire was not included in the RCRA Facility Assessment report; however, the report summarized the Site history and the results of the 1994 investigation, and evaluated the 1994 data using the 2004 USEPA residential soil PRGs. The DTSC concluded that no further action was warranted at this location.

Geosyntec screened the 1994 soil vapor data using the DTSC's 2019 indoor air screening levels (assuming an attenuation factor of 0.03) for commercial properties. Acceptable soil vapor screening values for commercial properties for 1,1,1-TCE, PCE, and TCE are 146,000 µg/m^3, 67 µg/m^3 and 100 µg/m^3, respectively. The 1994 detections of TCE and PCE exceeded the 2019 calculated indoor air soil vapor screening levels. Additionally, the soil vapor method detection levels for the 1994 investigation also exceeded the 2019 regulatory screening levels. Soil sampling results did not exceed the current DTSC Human Health Risk Assessment (HHRA) Note 3 screening levels for residential or commercial soil or acceptable maximum background limits for metals (Kearney Report, 1996).

Based on the results of the 1994 soil vapor survey, it is likely operations at the Site did impact the subsurface media. These results indicate that PCE and TCE concentrations exceed current soil vapor screening levels for vapor intrusion; therefore, it appears the Site has been impacted by historical Site operations.

1425 San Bernardino Road

This property, under SoCal Edison, approximately 55 feet northeast of the Site and hydraulically upgradient, was listed in the ERIS report under the CHMIRS database due to a 100-gallon spill of mineral oil from a transformer at a residence in 2004. Geosyntec searched the CHMIRS archive for this listing. The spill is listed as "contained" did not enter any waterways based on the entry in the archive file. Cleanup was reportedly performed by the reporting party (SoCal Edison) under the Los Angeles County Fire Prevention Department. Based on the report that this spill was contained and "cleaned up", it is Geosyntec's opinion this listing is unlikely to have adversely impacted the Site.

1313 West San Bernardino Road

This property, under Former Texaco 61-106-0191, 450 feet east-northeast of the Site and hydraulically upgradient, was found in the GeoTracker database with numerous assessment documents. Based on the Summary of Site Assessment/Remediation Activities and Environmental Site Closure Evaluation by Miller Brooks Environmental Inc in 1996, reported that the former

Texaco operated from 1962 through 1984 and consisted of four 4,000-gallon USTs, one 550-gallon waste oil UST, associated dispenser islands, and service bays. The existing USTs were removed and replaced by three 10,000-gallon USTs in 1983. The USTs, dispensers, and piping were removed in 1984 during closure of the service station. The excavations were backfilled and resurfaced. In 1989, 12 soil borings were advanced at the service station location to assess impacts left in place. Hydrocarbon-impacted soil was found to be present to a maximum depth of 95 ft bgs and was laterally delineated and did not leave the service station site. Several vapor extraction wells were installed and operated between 1991 and 1994, which removed an estimated 4,467 gallons of hydrocarbons (inferred to mean from vapor; free product was not reported beneath this facility). Confirmation soil samples were collected which indicated residual hydrocarbon impacts were still present at the facility in low permeability zones. However, the facility qualified for low-risk closure as the release had been stopped and sources removed, and the soil contamination appeared to be relatively stable and the risk to public health and environment was low. Groundwater had not been encountered in the deepest boring (141 ft bgs) and was not inferred to have been impacted. Since these criteria were met, the LARWQCB granted this facility NFA in a letter dated 11 October 1996 and indicated wells must be properly abandoned and reported. The well abandonment activities were reported on GeoTracker on 16 January 1997. Based on the lateral delineation of the contamination at the facility not extending offsite, NFA designation, and no known impacts to groundwater, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

1274 West San Bernardino Road

This property under Shell Service Station, approximately 670 feet east of the Site and presumed to be hydraulically up- to cross-gradient to the Site, was located on GeoTracker under the LUST database and as a cleanup site. No documents were available for either listing on GeoTracker. Geosyntec also searched the DPW UST database, which yielded two inspection reports from 1999 but no cleanup details. The GeoTracker listings indicate the potential contaminant of concern was gasoline and the LUST cleanup case was closed as of 19 November 1990. Additional work related to gasoline contamination appears to have been performed in 2005 based on the available map under the facility's cleanup program page, and the listing is "Closed as of 17 July 2006". It appears confirmation samples were collected around the existing gas station tanks. Although no documents were able to be located, based on the history of the facility indicating this location has been investigated twice and successfully closed under the RWQCB as of 2006, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site. The available document from GeoTracker (a map showing confirmation sample locations) is included in Appendix C.

545 Rimsdale Avenue North

This property under US Postal Service Covina, approximately 0.4 miles to the east-northeast and hydraulically upgradient to the Site. No documents were found on the DPW database or on GeoTracker; the GeoTracker entry indicates the potential contaminant of concern was gasoline which affected soil, and the cleanup status is completed and case closed as of 25 July 1996. Based on the distance from the Site, closed status of the cleanup, and groundwater not reported to have been affected, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

Geosyntec searched for Society Cleaners and Sparkle Cleaners, which were identified in the ERIS database report upgradient of the Site but not within databases indicative of release. These facilities were not found in the GeoTracker or EnviroStor databases, indicating releases have not been identified at these locations. Society Cleaners is located approximately 845 feet northwest of the Site and is hydraulically cross-gradient to the Site. Sparkle Cleaners was located approximately 0.5 miles east-northeast of the Site and is hydraulically east-northeast of the Site. Based on the hydraulically cross-gradient locations of these cleaners to the Site, and the depth to groundwater (approximately 185 feet or greater), it is Geosyntec's opinion these facilities are unlikely to have adversely impacted the Site.

Four additional LUST listings were shown on GeoTracker cross-gradient to the Site to the east. Based on their distance from the Site (approximately 0.8 miles from the Site) and cross-gradient orientation, it is Geosyntec's opinion these listings are unlikely to have adversely impacted the Site.

4.4.3 Federal Records

Review of the United States Environmental Protection Agency (USEPA) records associated with sites listed in the ERIS Database Report did not reveal additional information or potential for RECs in connection with the Subject Property or surrounding properties with the exception of one listing. 600 North Rimsdale Avenue listed under Conrac Corp – Conrac Division is located approximately 0.4 miles to the east-northeast of the Site and was listed on one or more CERCLIS-related databases. This location is listed in the Administrative Settlement Agreement and Order on Consent of De Minimis Contributors for the Casmalia Disposal site, as owing a sum due to release of waste to the Casmalia Disposal site. Based on this information, it is unlikely this location has adversely impacted the Site.

Review of the USEPA Enforcement and Compliance History Online (ECHO)[6] database did not reveal records in connection with the Site, or surrounding properties. This database is used to track compliance, releases, and other information for facilities handling hazardous materials.

Review of the USEPA National Priorities List (NPL)[7] database indicated several areas in the greater Site vicinity are on the NPL. This database lists sites of national priority among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. Based on technical documents and a fact sheet for the San Gabriel Valley Groundwater Cleanup Superfund Progress Report, several plumes exist in the greater Los Angeles area under the San Gabriel Superfund site. These are divided into six operable units (OUs). The Baldwin Park OU is closest to the Site with the eastern extent of its VOC plume located approximately 2 miles west of the Site. Based on the distance of this OU from the Site, it is Geosyntec's opinion this facility is unlikely to have adversely impacted the Site.

No military bases or airports were identified within three miles of the Site.

4.5 Client- or Owner-Provided Environmental Assessment Documents

A Phase I ESA was provided by Greenlaw for the Site that was prepared in 2019 for Mr. Mel Gaines of Faith Church, by Orswell & Kasman, Inc. (O&K). This Phase I ESA was prepared for the Site for the purpose of determining if any RECs, Historical RECs (HRECs), or Controlled RECS (CRECs) existed on or near the Subject Property. This report did not identify RECs or CRECs associated with the Site; however, it identified the past uses of the Site as an aerospace manufacturer and closed Corrective Action (CORRACTs), as well as hazardous waste storage location, as HRECs. Since the CORRACTs designation for the Site had been granted NFA in June 2008 and the CORRACTS process was terminated at this time, the CORRACTs designation was not considered a REC. Additionally, due to the NFA that was granted the hazardous waste unit on the Site in 2009 and the Site being clean-closed, the historical presence of the hazardous waste storage was designated an HREC. This report also summarized a previous Phase I ESA, also prepared by O&K in 2012 for the Site. No RECs or HRECs had been reported for the Site in the 2012 Phase I ESA.

[6] https://echo.epa.gov
[7] https://www.epa.gov/superfund/superfund-national-priorities-list-npl

5. SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

A reconnaissance of the Site was conducted by Geosyntec representative Joshua Nandi on 15 April 2020, escorted by Jeremiah Lamerson of Faith Church. Photographs taken during the reconnaissance are included in Appendix A. Adjoining properties were peripherally observed from the perimeter of the Subject Property.

As part of the Site reconnaissance, Geosyntec looked for evidence of the presence of hazardous substances used, stored, or discarded, and inspected the Site for areas of disturbed or discolored soil, suspect equipment and/or building materials which may contain hazardous substances, areas of distressed vegetation, wastewater discharge areas, storage tanks/septic systems, waste management/disposal areas, lagoons, pits, sumps, surface water management areas, and stained surfaces.

5.2 Utility Service & Materials Management Provider Information

At the time of the Site visit, electricity was provided by Southern California Edison, municipal potable water/sewer was provided to the Site, and natural gas was provided by Southern California Gas Company. No used oil, hazardous waste, or used batteries were reportedly generated at the Site.

5.3 Interior and Exterior Observations

Observations made by Geosyntec during the Site reconnaissance are documented as follows:

Geosyntec Site Reconnaissance Observations		
ASTM Section	**Feature or Condition**	**Description**
Interior and Exterior Observations		
9.4.2.3 & 9.4.2.8	Hazardous Substances or Petroleum Products	No hazardous substances were observed during Site reconnaissance. Small quantities of gasoline were observed in the loading dock area.
9.4.2.4	Underground Storage Tanks (USTs)	No evidence of USTs was identified during Site reconnaissance.
9.4.2.4	Aboveground Storage Tanks (ASTs)	No evidence of ASTs was identified during Site reconnaissance.
9.4.2.5	Odors	No notable odors were identified. Geosyntec's interviewing effort addressed but did not identify past odor conditions of concern.

Geosyntec Site Reconnaissance Observations		
ASTM Section	**Feature or Condition**	**Description**
9.4.2.6	Pools of Liquids	No pools of liquid indicative of a chemical release were identified. Small leaks from the HVAC system were observed in multiple areas of the Site and were collected using buckets and other small containers. Geosyntec's interviewing effort addressed by did not identify past pools of liquid at the Site.
9.4.2.7	Drums and Containers > 5 Gallons	Drums and containers over 5 gallons were not observed during Site reconnaissance.
9.4.2.9	Unidentified Substances/Containers	No unidentified containers were identified during Geosyntec's reconnaissance of the Subject Property. Geosyntec's interviewing effort addressed but did not identify such containers.
9.4.2.10	PCB Items	A pad-mounted utility-owned transformer and switchboard were observed on the eastern portion of the Site, in the playground area. The age and PCB content (if any) of the transformers were not reported, and PCB labels were not observed on the transformers.
Interior Observations		
9.4.3.1	Heating and Cooling Systems	Heating and cooling system was observed at the Site. Small leaks from the HVAC system were observed in multiple areas of the Site and were collected using buckets and other small containers. Geosyntec's interviewing effort addressed but did not identify past heating or cooling systems.
9.4.3.2	Stains/Corrosion	No staining was observed. Geosyntec's interviewing effort addressed but did not identify past staining at the Site.
9.4.3.3	Drains and Sumps	Floor drains were observed in the coffee shop and restroom areas of the building. Geosyntec's interviewing effort addressed but did not identify the purpose of this feature. Drains within the building were reported to drain to the utility-owned sanitary sewer system.
Exterior Observations		
9.4.4.1	Pits, Ponds, or Lagoons	Pits, ponds, or lagoons were not observed during Site reconnaissance.
9.4.4.2	Stained Soil or Pavement	No areas of staining indicative of potential subsurface contamination were observed at the Subject Property. Geosyntec's interviewing effort addressed but did not identify staining of significant concern.
9.4.4.3	Stressed Vegetation	No obviously stressed vegetation indicative of a chemical discharge or application was observed at the Subject Property.
9.4.4.4	Solid Waste	Solid waste was not observed during Site reconnaissance.
9.4.4.5	Wastewater or Stormwater Discharge	Wastewater was not generated at the Site during reconnaissance. Stormwater at the Site drains to storm drains located in paved areas and is conveyed through curbs and gutters to utility owned stormwater drains along Badillo Street.

Geosyntec Site Reconnaissance Observations		
ASTM Section	**Feature or Condition**	**Description**
9.4.4.6	Wells	Wells were not observed during Site reconnaissance. Geosyntec observed mark-out locations for soil borings that had not yet been advanced. Geosyntec's interviewing effort addressed but did not identify historical wells.
9.4.4.7	Septic Systems	No evidence of septic systems was observed at the Subject Property during Geosyntec's visit.

5.4 Adjoining Property Reconnaissance

Geosyntec did not visit the adjacent/adjoining properties but did observe them from vantage points on the Site and on public roads near the Site. Our limited inspection of adjacent and vicinity properties did not reveal conditions suggesting obvious environmental impairments with the ability to impact the Site at the adjacent properties during the time of our Site reconnaissance.

6. INTERVIEWS

6.1 Interview with Current Owner/Occupant

On 21 April 2020, Geosyntec conducted an interview with Mr. Melvin Gaines of Faith Church. Mr. Gaines supplied information regarding Site features, operations, and history. The information gathered during the interview is included in this document. Mr. Gaines indicated the Site had been used for aircraft design prior to the church's tenancy, and that it was his understanding no manufacturing had been performed on the Site. Geosyntec also contacted Mr. Dean Navarro about the areas marked out on the Site for apparent borings. Mr. Navarro indicated these boring locations were placed by a contractor for geotechnical soil sampling purposes planned for 27 and 28 April 2020.

6.2 Interview with Previous Owner/Occupant

Geosyntec was not provided with contact information for any of the former property owners; Geosyntec did not conduct an interview with former owner representatives.

6.3 Interview with Local Agencies

In accordance with the Client agreed-to scope of work associated with this Phase I ESA, Geosyntec did not interview local agency personnel.

7. FINDINGS, OPINIONS, AND DATA GAPS

In the following sections, Geosyntec presents our findings and opinions, data gaps, and conclusions (Sections 7.1 through 7.3) regarding any identified RECs, controlled RECs (CRECs), historical RECs (HRECs), and/or *de minimis* conditions associated with the Site.

7.1 Findings and Opinions

Geosyntec has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the Subject Property described herein. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment did not reveal evidence of controlled recognized environmental conditions or historical recognized environmental conditions. This assessment revealed evidence of recognized environmental conditions and *de minimis* conditions. These identified conditions are described below:

Recognized Environmental Conditions (RECs)

As defined by ASTM E1527-13, a REC is: "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.*"

The following REC was identified by Geosyntec:

- **Impacts from Historical Operations:** The Site was historically used as a manufacturing and assembly facility for flight simulators and electronic components, which reportedly generated wastes that were stored on-Site. The wastes reported included solvents, machine and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, and adhesives. Based on a 2008 Resource Conservation and Recovery Act (RCRA) facility assessment report, Hughes conducted a site assessment in September 1994 in accordance with a closure plan submitted to the Department of Toxic Substance Control (DTSC) in May 1994 in preparation for closure of the Site. Soil, soil vapor, and concrete samples were collected from the HWSA, loading docks, assembly and parts washing areas, dye and paint shop areas, and a machine shop. Soil vapor samples were analyzed for volatile organic compounds (VOCs) by a mobile laboratory. 1,1-dichloroethene (1,1-DCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and tetrachloroethene (PCE) were reportedly the only VOCs detected; however, the reporting limits were elevated compared to current screening levels. The maximum concentrations of VOCs detected in soil vapor were:

- 1,1-DCE: 2 micrograms per liter (µg/L; 2,000 micrograms per cubic meter (µg/m^3));
- TCA: 28 µg/L (28,000 µg/m^3);
- TCE: 4 µg /L (4,000 µg/m^3); and
- PCE: 5 µg/L (5,000 µg/m^3).

At the time of the investigation, soil vapor data was screened against applicable Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs). Using the DTSC's 2019 indoor air screening levels (assuming an attenuation factor of 0.03) for commercial land uses, the detections of TCE and PCE in soil vapor exceeded their respective indoor air screening levels of 100 µg/m^3 and 63 µg/m^3, respectively.

Soil sampling analytical results also indicated low levels of total petroleum hydrocarbons (9 to 62 milligrams per kilogram [mg/kg]), as well as pesticides 4,4' dichlorodiphenyldichloroethylene (4,4'-DDE) and 4,4' dichlorodiphenyltrichloroethane (4,4'-DDT) were detected at 0.059 and 0.02 mg/kg, respectively. Metals were detected below their maximum acceptable background levels for Southern California (Kearney Foundation, 1996). In addition, low levels of acetone, ethylbenzene, total xylenes, and 4-methyl-2-pentanone were detected in the concrete samples collected from the former HWSA area inside the existing building.

Based on these analytical results, the facility, including the HWSA, was granted closure on 23 November 1994. A 2019 Phase I ESA for the Site indicated that the facility was HREC based on the closed status and no further action granted to the facility in November 1994. However, review of the historical soil vapor data indicates select VOC concentrations are above current allowable screening levels, indicating there may be a potential for vapor intrusion of VOCs; therefore, this finding is a REC.

De Minimis Conditions

A de minimis condition is a condition that "*generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies*". *De minimis* conditions are not recognized environmental conditions.

Based on the information Geosyntec obtained, Geosyntec has concluded that the following findings do not meet the definition of a REC, CREC or HREC and are *de minimis* conditions:

- **Historical Agricultural Land Use:** Historical Site documents and aerial photographs indicated that the Site was used for agricultural purposes since at least 1928 until 1960. Based on the timeframe of the observed clearings, it is possible that hazardous pesticides

or herbicides were used on-Site; however, no evidence of pesticide/herbicide usage was found as part of this Phase I ESA, and no evidence of improper historical application of pesticides were found. Therefore, this finding is not a REC but rather a *de minimis* condition.

- **Historical Adjoining Railroad:** A railroad bordered the Site to the south by at least 1927. This location later became Badillo Street. Railroads can be associated with the use of petroleum products, pesticides, and heavy metals, which may have impacted shallow soils at the Site. However, because these uses cannot be ascertained and there is no evidence of on-Site impact, this finding is considered a *de minimis* condition.

7.2 Data Gaps

In accordance with ASTM E1527-13, this section documents data gaps in the information obtained and reviewed as part of this Phase I ESA and discusses the associated significance. A data gap is defined as being "a lack of or inability to obtain information required by this practice [ASTM E1527-13] despite good faith efforts by the environmental professional to gather such information". Data gaps identified included the following:

- Due to time and scope limitations in preparing the Phase I ESA, no in-person file review was conducted with local, State, or Federal agencies.

- Geosyntec tried to obtain information to allow an interview but was unable to interview former owners/operators of the Site pursuant to ASTM E1527-13 guidance. Specifically, this inability to interview the prior owner/occupant affected our ability to identify details regarding operations of Honeywell and Hughes, Inc. This data gap has been considered in our opinion on Findings.

Collectively, in Geosyntec's opinion, none are considered to be significant with respect to identification of additional RECs for the Site. These data gaps have been incorporated into our findings.

7.3 Conclusions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of 1211 Badillo Street, West Covina, California, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except the following:

- REC 1 – Impacts from Historical Operations

8. NON-SCOPE CONSIDERATIONS

8.1 Asbestos-Containing Materials (ACM)

The building on the Subject Property was constructed in 1963. Buildings constructed in or before 1981 are presumed to contain ACM, unless inspection or sampling are completed to refute this presumption. Mr. Gaines indicated that an ACM survey may have been conducted at the Site. Geosyntec has requested these documents, which have not been provided by at the time of this report. Geosyntec will prepare an addendum to this report if these documents are provided at a later date.

Please note that this report should not be construed as constituting an asbestos assessment for the purposes of demolition or reconstruction or for complying with applicable regulatory standards.

8.2 Lead-Based Paint (LBP)

The building on the Subject Property was constructed in 1963. Buildings constructed in or before 1978 are presumed to contain LBP, unless inspection or sampling are completed to refute this presumption. Mr. Gaines indicated that, to his knowledge, LBP was not present in the building materials or surface coatings at the subject property.

Please note that this report should not be construed as constituting a lead-based paint survey for the purposes of demolition or reconstruction or for complying with applicable regulatory standards.

8.3 Water and Mold

The warehouse was constructed in 1963 and has gone through at least one improvement in 1980 based on property tax records. Mr. Gaines was not aware of reported water damage or mold issues associated with the warehouse. In addition, Geosyntec's did not view readily observable indications of water damage or potential mold.

Note that our assessment did not include a thorough review of all building spaces and areas of water damage or mold may be present in areas not readily observable.

9. REFERENCES

ASTM, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment

Environmental Risk Information Services, 2020. Historical Aerial Report, 20 March.

Environmental Risk Information Services, 2020. Historical Directory Report, 24 March.

Environmental Risk Information Services, 2020. Database Report, 20 March.

Environmental Risk Information Services, 2020. Physical Setting Report, 19 March.

Environmental Risk Information Services, 2020. Fire Insurance Map Research Results, 20 March.

Environmental Risk Information Services, 2020. Topographic Map Research Results, 20 March.

Department of Toxic Substance Control, 2008. Resource Conservation and Recovery Act Facility Assessment. 26 June.

Kearney Foundation of Soil Science, 1996. Background Concentrations of Trace and Major Elements in California Soils. March.

Los Angeles Department of Public Works (LADPW), 2005. San Gabriel River Corridor Master Plan Draft Program EIR. February.

Miller Brooks Environmental, Inc. (MBE), 1996. Summary of Site Assessment/Remediation Activities and Environmental Site Closure Evaluation. 9 September.

Orswell & Kasman, Inc., 2019. Phase I Environmental Site Assessment Report. 25 July.

10. SIGNATURE BY ENVIRONMENTAL PROFESSIONAL

"I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312." The below-signed professional's qualifications are included in Appendix F.



Signed by Kimberly Brandt - Geosyntec Consultants

TABLES

Table 1
Historical Records Review – Geosyntec Observations
1211 Badillo Street
West Covina, CA 91790

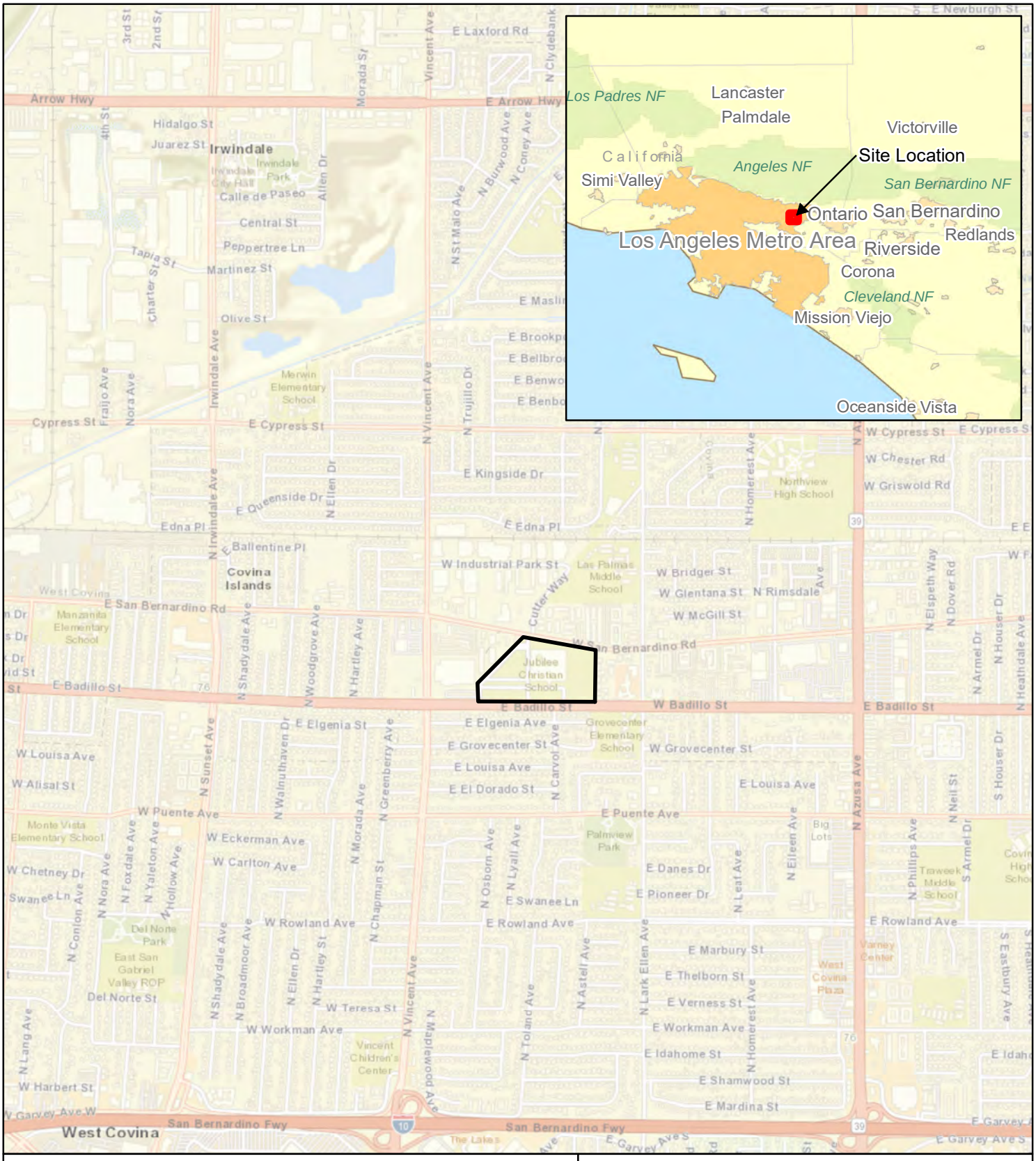
Aerial Photographs [1]	Topographic Maps [2]	City Directories	Fire Insurance Maps
Site: **1928:** The Site appears to be used for agricultural purposes, specifically orchards, based on the orientation of vegetation and apparently distinct trees. **1938:** One structure is visible in the southern portion of the Site. No other change is apparent. **1948:** The eastern portion of the Site appears to have been cleared. **1952:** The Site appears to be cleared of orchard use and appears to be used for row crop-type agriculture. The structure is still visible in the northern portion of the Site. **1953-1954:** No significant change is apparent. **1960:** The area surrounding the structure in the northern portion of the Site appears to have been enlarged. The rest of the Site appears to still be used for agricultural purposes. **1964:** The Site has been developed with the existing building and parking lot to the west of the Site and lawn to the north of the building. The rest of the Site appears to still be undeveloped. **1965:** No significant change is apparent. **1972:** Several structures or vehicles appear to be staged south of the building. No other significant change is apparent. **1977:** Several structures are visible south of the building, and this area also appears to have been paved by this time. **1980:** Several objects appear to be staged to the east of the building, and the ground in this area appears darker than the surrounding undeveloped portion of the Site. The area adjoining the building to the south appears to be walled in with several small outbuildings. **1987:** No significant change is apparent. **1995:** The buildings on the parking lot south of the building appear to have been removed. The area to the east of the building appears to be irrigated and used for two baseball diamonds. **2003:** The southeastern corner of the Site has been developed into a parking lot. The area north of this lot is still partially used as a baseball diamond, and the area northwest of the lot, adjoining the building, is used as a playground. The walled-off area south for the building appears to have been converted into a landscaped area. A small area northeast of the southern lot appears to contain two small buildings. **2004:** No significant change is apparent. **2005:** The area north and northeast of the building (grassy areas) are parked over with cars in the photo taken in March– likely Easter. These cars are not present in aerials later in the year. No other significant change is apparent. **2006-2008:** No significant change is apparent. **2009:** The baseball diamond in the northeastern portion of the Site has been converted into a parking lot. No other significant change is apparent. **2010-2018:** No significant change is apparent. **Vicinity:** **1928:** The Site vicinity appears to be exclusively used for agricultural (orchard) use. Residences are visible primarily to the south of the Site. A riverbed appears to run along the Site's western boundary (San Dimas Wash), and truncate at/follow Badillo, which appears to be unimproved. San Bernardino Road, North Vincent Road, and several other surrounding existing roads are present and also appear to be unimproved. **1938:** No significant change is apparent. **1948:** Additional residences are visible north and northeast of the Site.	**Site:** **1894:** No buildings are mapped on the Site. **1897-1925:** No significant change is apparent. **1927:** One structure is shown on the northern portion of the Site. The San Dimas Wash appears to cross onto the western portion of the Site and truncate at the Pacific Railroad south of the Site (present-day Badillo Street). **1932-1960:** No significant change is apparent. **1966:** The present-day building is depicted on the Site. The western Site boundary is labeled "CORP" indicating the boundary between Covina (Site) and Irwindale. **1972-1975:** No significant change is apparent. **1982:** Three small outbuildings are shown south of the main building on the Site. A drive appears to extend from San Bernardino Road through the middle of the Site to connect to Badillo Street. **2012-2018:** No buildings are depicted on the Site. **Vicinity:** **1894:** San Bernardino Road and a railroad are mapped north of the Site, and several cross streets are mapped southeast and north of the Site. The San Dimas Wash is depicted north of the Site running roughly northeast/southwest and truncating at San Bernardino Road west of the Site. A wash is also depicted approximately 1.5 miles south of the Site. **1897-1925:** No significant change is apparent. **1927:** Additional crossroads are depicted south of the Site, including Puente, Rowland, Workman, and Arroyo Avenues. The Pacific Electric is depicted adjoining the Site to the south and extending east-west. Additional structures have been constructed in all directions in the Site vicinity, primarily to the south. San Dimas Wash is shown adjoining the Site to the west. **1932-1946:** No significant change is apparent. **1953:** The area surrounding the Site is marked as vegetated, and Badillo Street is marked south of the Site and the Southern Pacific Railroad is no longer depicted. Three gravel pits are depicted approximately 1-1.5 miles northwest of the Site in the San Gabriel Wash. Oil tanks are depicted in two locations approximately 1 mile northeast of the Site. The area to the south has been largely developed into residential neighborhoods. **1955-1960:** No significant change is apparent. **1966-1967:** The entire surrounding vicinity has been developed with smaller side streets for residential subdivisions and industrial areas directly north of the Site. Several schools are marked northwest and northeast of the Site, as well as south, southeast, and southwest. At least one gravel pit northwest of the Site appears to still be active. Primary	**Site:** **1951:** The Site street is not listed. **1962-1972:** The Site address or known tenants are not listed. **1975-1979:** 1200 San Bernardino Road is listed as Honeywell, Inc. or Honeywell Sales & Service, a known former Site tenant. **1990-1991:** 1200 San Bernardino is listed as vacant. 1200 and 1211 Badillo are not listed. Honeywell or its parent company or subsidiaries are not noted as tenants. **1994-1995:** 1200 and 1211 Badillo or San Bernardino are not listed, and Honeywell or the current church tenant are not listed as tenants. **2002:** 1211 Badillo Street is listed as Faith Community Church, the current tenant. **2006-2014:** 1211 Badillo Street is listed as Faith Community Church, Jubilee Christian Preschool, and Living Waters. **2018:** 1211 Badillo Street is listed as Faith Community Christian West Covina and Jubilee Christian Preschool. **Vicinity:** **1951:** No streets are listed. **1962:** The listings on Badillo Street and San Bernardino Road appear to be mainly residential listings, particularly apartments. Nonresidential listings include Blackards Super Service, FK Transmission Service, and Modern Rad/Welding Service at 1611 San Bernardino Road, Sparkle Cleaners and Laundry at 1011 San Bernardino Road, Society Cleaners at 1641 San Bernardino Road, Larry's Richfield Service at 1680 San Bernardino Road, and Weekly/Sons Chevron Service station at 1681 San Bernardino Road. The remaining businesses appear to be commercial retail or food services. **1966:** Listings appear to be largely still personal residences. Society Cleaners, Sparkle Cleaners, and Blackards Super Service are still noted at their previous locations. Other notable properties include various service shops at 1274 (Joe's American Service), 1275 (Seidel/Son Service), Knight DelnoTexaco (1313), Buds Auto Service (1647) and Weekly Chevron Service (1681) on San Bernardino Road. **1972:** The majority of San Bernardino Road and Badillo Street listings are still residential apartments. Nonresidential listings include the aforementioned Sparkle Cleaners, Society Cleaners, and Blackards Body Shop on San Bernardino Road, as well as Kenny's Machine Shop (1108 Badillo), Brutoco Engineering (1060 San Bernardino Road), American Oil Service (1274 San Bernardino Road), (Jim Yorks Service Center (1275 San Bernardino Road), Garnett's Texaco (1313 San Bernardino Road), Athans Tow Service and H&R Dyno Service (1647 San Bernardino Road) Mack's Arco (1680 San Bernardino Road) and Weekly's Chevron Service (681 San Bernardino Road). **1975:** The majority of listings are still residential. Notable nonresidential listings on San Bernardino Road are Eldon Drapery Cleaners, Sears Roebuck and Co., and Sparkle Cleaners (1011), Shell Oil Co. (1274), Jim Yorks Service Center (1275), Mack's Arco (1680), and Weekly's	According to ERIS, fire insurance maps (e.g. Sanborn maps) are not available for this locale.

Table 1
Historical Records Review – Geosyntec Observations
1211 Badillo Street
West Covina, CA 91790

Aerial Photographs [1]	Topographic Maps [2]	City Directories	Fire Insurance Maps
1952-1953: The area north, northeast, and east of the Site appears to continue to be developed. **1954:** The vicinity to the northeast, east, southeast, south, and southwest has been considerably developed with residential subdivisions and standalone houses. Agricultural areas still exist between these subdivisions. **1960:** The Site vicinity in all directions has been developed with residences, with the exception of the property directly east and across North Vincent Avenue, which are still undeveloped, and the properties to the north and northwest across San Bernardino Road, which appear to be a mix of larger industrial buildings, undeveloped land, and residences. A building and parking lot that appear to be for industrial use adjoin the Site to the northwest and the Kindred Hospital is visible adjoining the Site to the east. **1964:** The area to the north has been further developed with warehouse-style buildings developed over previously vacant portions of land and also replacing residences. Several buildings to the east and west across North Vincent Avenue have also been developed on previously vacant land. **1965:** No significant change is apparent. **1972:** The property to the west and northwest have been developed with warehouses-style buildings that appear to be used for industrial purposes and smaller commercial buildings. The area to the northwest has been developed with apartment buildings. The San Dimas wash appears to have been diverted elsewhere and its former location built over west of the Site. **1980:** The area to the north across San Bernardino Road has been developed with commercial and small industrial-style buildings. The small building and parking lot adjoining the Site to the northwest has been demolished and replaced with several warehouse-style buildings. **1987-1995:** No significant change is apparent. **2003:** Additional residences have been constructed east of the Site. No other significant change is apparent. **2004-2006:** No significant change is apparent. **2007:** A building at the northeastern corner of Badillo and North Vincent Ave has been demolished. No other significant change is apparent. **2008-2018:** No significant change is apparent.	roads have been marked (San Bernardino Road, Puente Avenue, and San Bernardino Freeway). **1972-1975:** Several buildings (one large warehouse and several smaller) have been developed adjoining the Site to the west, and to the northeast across San Bernardino Road. **1982:** The property adjoining the Site to the west appears to be further developed with the present-day storage facility. Additional development is shown north of the Site in the industrial park, and 1.5-2 miles south of the Site in West Covina proper. The gravel pits northwest of the Site are still marked as such and appear to still be active at this time. **2012-2018:** No buildings are shown. Streets appear to resemble present-day configuration. The gravel pits appear to have been converted to unmarked bodies of water.	Chevron (1681). Badillo listings appear to be commercial retail or residential. **1979-1991:** Listings appear to be largely the same as 1975 and are still mostly residential with commercial retail and the aforementioned industrial businesses, including Society and Sparkle Cleaners and the surrounding auto body shops. **1994-1995:** Listings on both Badillo and San Bernardino appear to still be largely residential apartments, as well as churches, healthcare offices, financial facilities, and commercial retail. Nearby nonresidential businesses on San Bernardino Road include Yamaha and Kawasaki (1011), Lark Ellen Shell (1274), Seven 11 Food (1275), Metals Recovery Co (1578), Bills Precision Grinding, DV Printing, KW Construction and Wilkinson Trash Chutes (1580), Robs Automotive (1635), Covina Engine Rebuilding and Service Pro Automotive (1647),Buds Muffler Shop (1854), Covina Industrial Park (1570), Society Cleaners (1641)and City Refuse Service and West Covina Disposal Co (1807). **2002-2006:** Listings appear to be largely commercial retail, contracting, churches, healthcare, or financial businesses. The notable properties listed around 1995 are largely still at their respective addresses. **2010-2014:** Vicinity listings still appear to contain apartments, as well as commercial retail, restaurants, financial businesses, healthcare clinics, and industrial listings including Society Cleaners (1641 San Bernardino), Covina Industrial Park (1570), 7-11 (1275), and Spot-Free Car Wash (1274). Badillo listings appear to be schools and offices. **2018:** Listings for Badillo Street include healthcare services, legal offices, and schools and churches. Listings on San Bernardino Street in the vicinity include residential listings, healthcare services, various commercial offices and retail, and restaurants. Nonresidential listings of note include Spot Free Car Wash and 7-Eleven (1274 and 1275) Buds Muffler Shop (1554), Transmasters Transmission (1635), and Arco and JBC Smog (1680).	

Notes:
1. Additional aerial photography review was completed using Google Earth and HistoricAerials.com when available.
2. Additional topographic map review was completed using HistoricAerials.com when available.

FIGURES



Legend

Site Location

N

0 500 1,000 2,000 Feet

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Site Location Map

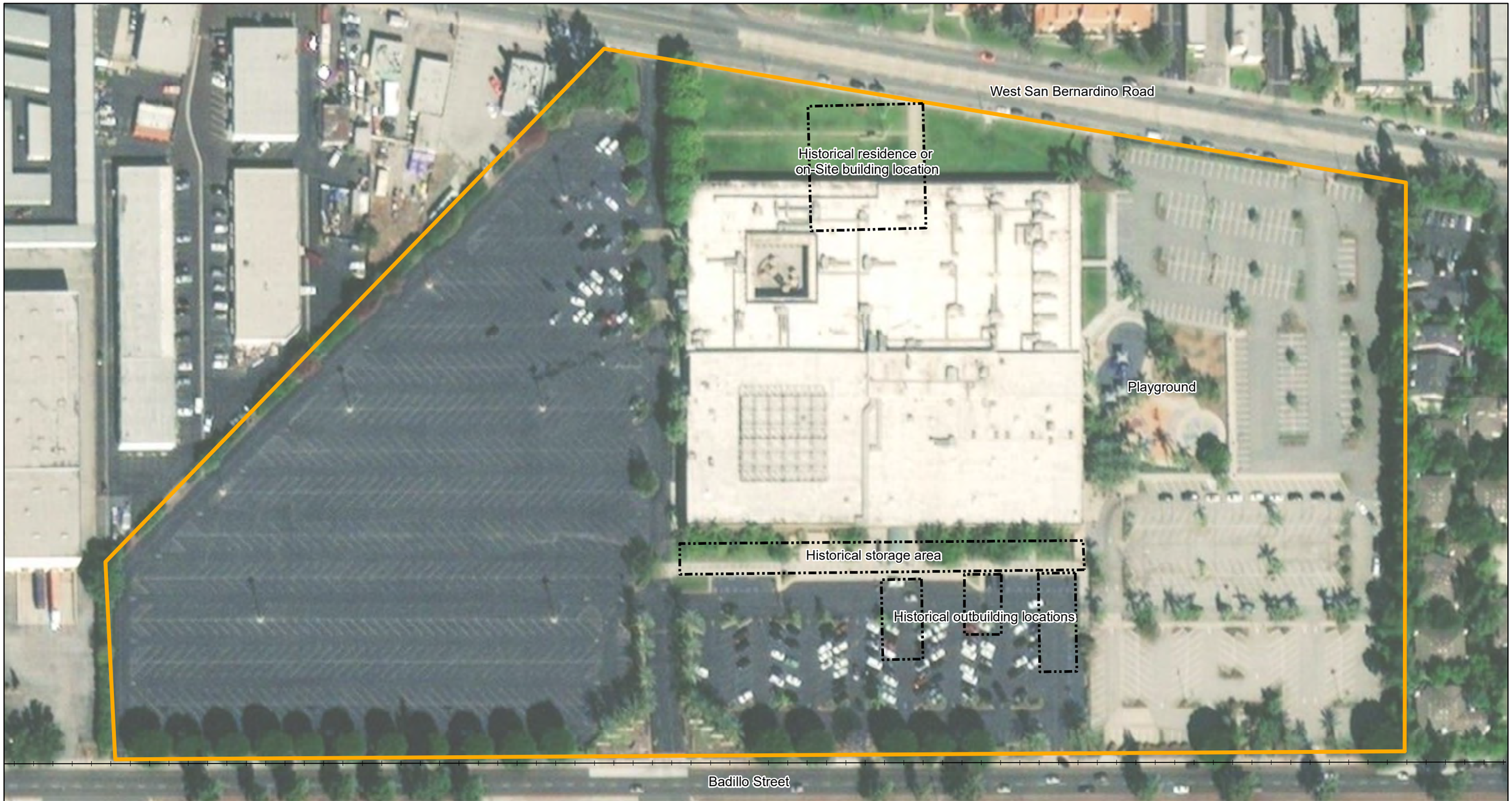
1211 Badillo Street,
West Covina, California

Geosyntec consultants

PNR0651FW1-267A	May 2020

Figure 1

P:\Projects\Amazon\Projects\GIS\900 GIS and CAD\920 GIS\PNR0651FW1-267A_West Covina\MXDs\Figure 1 Site Location Map.mxd 4/22/2020 6:13:16 AM



Legend

- Approximate Site Boundary
- Historical Building Location
- Historical Pacific Electric Railroad line location

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

50 25 0 50 Feet

Site Layout Map

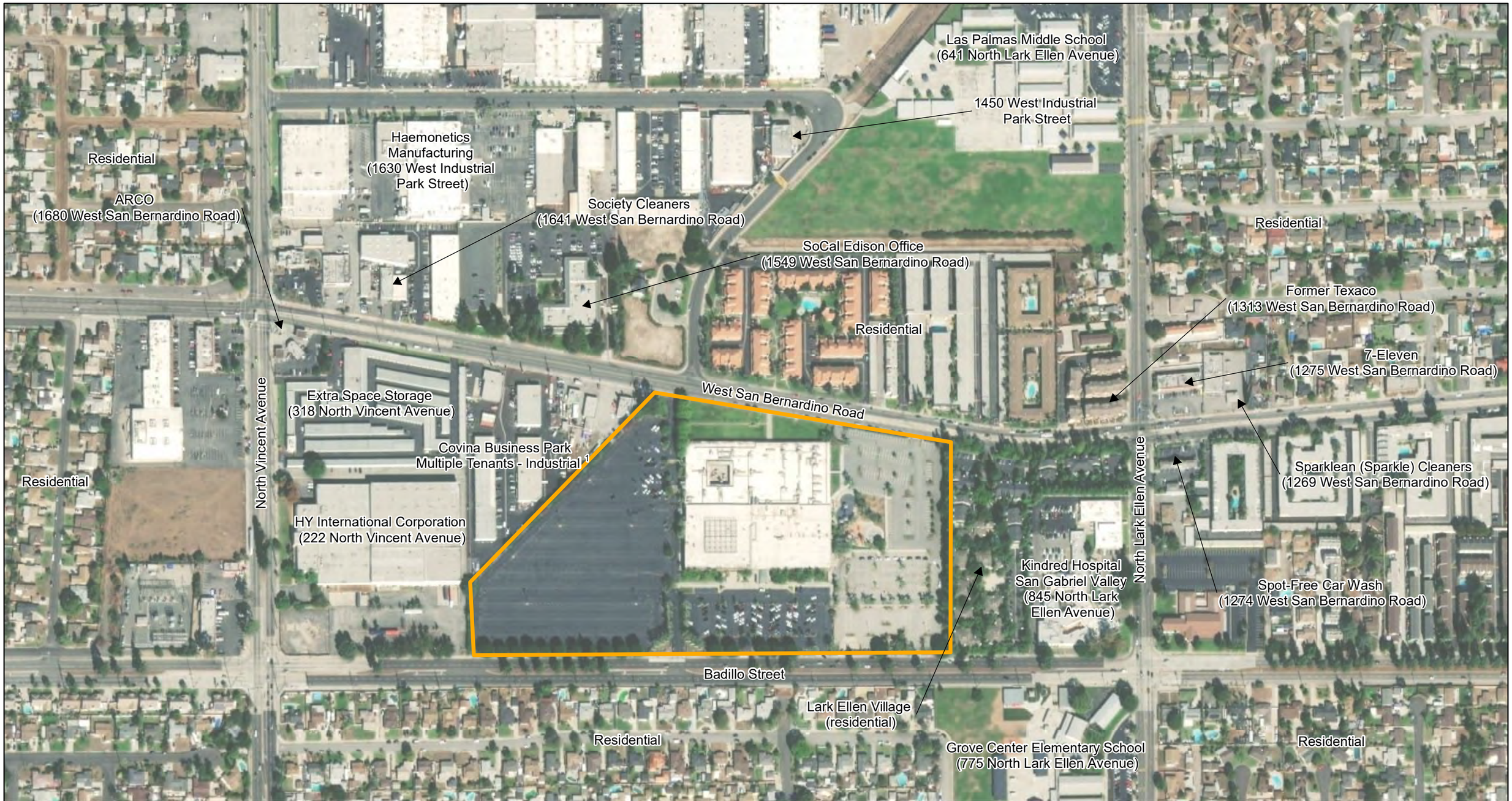
1211 Badillo Street,
West Covina, California

Geosyntec consultants

Figure 2

PNR0651FW1-267A | May 2020

P:\Projects\Amazon\Projects\GIS\900 GIS and CAD\920 GIS\PNR0651FW1-267A_West Covina\MXDs\Figure 2 Site Layout Map.mxd 4/23/2020 4:32:31 AM



Legend

Approximate Site Boundary

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1. Drop Your Jeans, Inc. (1600 West San Bernardino Road); Car Audio Innovations (1566 West San Bernardino Road); The Muff Shop/Bud's Muffler (1554 West San Bernardino Road); Lisa's Coffee Shop (1530 West San Bernardino Road); Rocket Lab, Inc. and HK Off-Road (1580 West San Bernardino Road); Superjet USA (1578 San Bernardino Road)

N

140 70 0 140 Feet

Nearby Properties Map

1211 Badillo Street,
West Covina, California

Geosyntec consultants

Figure 3

PNR0651FW1-267A | May 2020

P:\Projects\Amazon\Projects\GIS\900 GIS and CAD\920 GIS\PNR0651FW1-267A_West Covina\MXDs\Figure 3 Site Vicinity Map.mxd 4/23/2020 4:34:42 AM

APPENDIX A
Site Photographs

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 1

Date: 4/15/2020

Direction: Northeast

Comments: Parking lot and building from the southwestern corner of the Site.



Photograph ID: 2

Date: 4/15/2020

Direction: Northeast

Comments: Exterior of the loading dock area on the southeastern portion of the building.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 3

Date: 4/15/2020

Direction: Southeast

Comments: Landscaping and building on the northern area of the Site.



Photograph ID: 4

Date: 4/15/2020

Direction: Northwest

Comments: Parking lot and building from the eastern part of the Site.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 5 **Date: 4/15/2020** **Direction: West** **Comments:** Storm water curbs, gutters, and drains in paved areas of the Site.	
Photograph ID: 6 **Date: 4/15/2020** **Direction: East** **Comments:** Concrete pad, electrical equipment, and abandoned piping on the southeastern portion of the Site.	

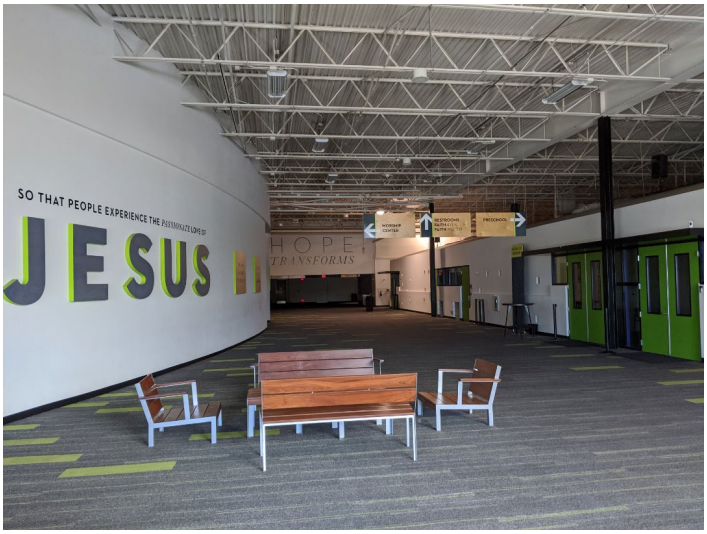
GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 7 **Date: 4/15/2020** **Direction: North** **Comments:** Southern exterior of the building from the main entrance on Badillo Street.	

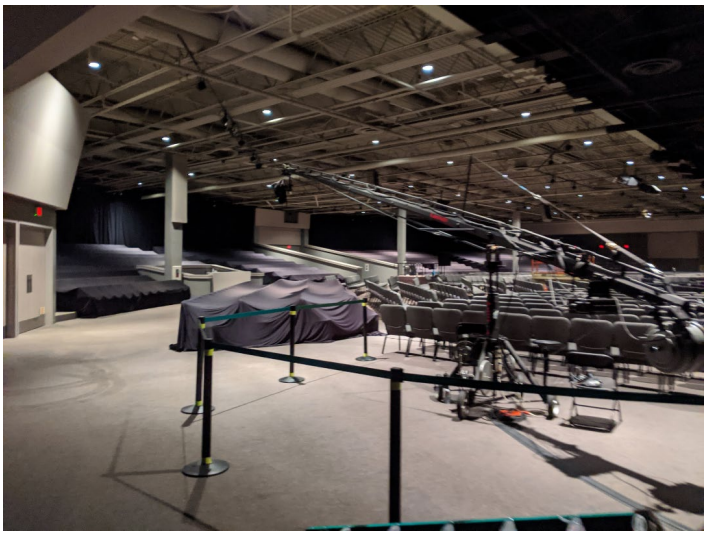
Photograph ID: 8 **Date: 4/15/2020** **Direction: North** **Comments:** Playground area on the eastern portion of the Site.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 9 **Date: 4/15/2020** **Direction: North** **Comments**: Pad-mounted transformer in the playground area.	

Photograph ID: 10 **Date: 4/15/2020** **Direction: North** **Comments:** Main lobby entrance on the southern portion of the building.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 11 **Date: 4/15/2020** **Direction: Northeast** **Comments:** Auditorium area inside the building.	
Photograph ID: 12 **Date: 4/15/2020** **Direction: West** **Comments:** Electrical panels, dry-type transformers and water fountain equipment for religious services within the auditorium area.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 13 **Date: 4/15/2020** **Direction: North** **Comments:** Typical floor drain in restroom areas of the building.	

Photograph ID: 14 **Date: 4/15/2020** **Direction: East** **Comments:** Janitorial closet with water heater and sink on the southwest area of the building.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 15 **Date: 4/15/2020** **Direction: Southwest** **Comments:** Interior loading dock area on the southwestern area of the building.	

Photograph ID: 16 **Date: 4/15/2020** **Direction: Northwest** **Comments:** E-waste bin in the loading dock area.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 17 **Date: 4/15/2020** **Direction: Southeast** **Comments:** Propane storage in loading dock area.	

Photograph ID: 18 **Date: 4/15/2020** **Direction: East** **Comments:** Small quantities of paints and asphalt patch stored in loading dock area.	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 19

Date: 4/15/2020

Direction: East

Comments: Small containers of paints, finishes, and gasoline stored in fire cabinet in the loading dock area.



Photograph ID: 20

Date: 4/15/2020

Direction: North

Comments: Cafe in the western portion of the building.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 21

Date: 4/15/2020

Direction: Northeast

Comments: Sink and refrigeration with floor drains in the cafe.



Photograph ID: 22

Date: 4/15/2020

Direction: Northeast

Comments: Courtyard with water fountain in the central area of the building.



GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 23 **Date: 4/15/2020** **Direction: West** **Comments:** Unused office space on western portion of the building.	
Photograph ID: 24 **Date: 4/15/2020** **Direction: Northeast** **Comments:** Office areas in the northern portion of the building.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 25 **Date: 4/15/2020** **Direction: Southeast** **Comments:** Office areas in the northern portion of the building.	

Photograph ID: 26 **Date: 4/15/2020** **Direction: East** **Comments:** Small quantities of cleaning detergents, paints, insecticides, and herbicides stored in a maintenance room on the eastern portion of the building.	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 27

Date: 4/15/2020

Direction: North

Comments: School administrative lobby on northeastern portion of the Site.



Photograph ID: 28

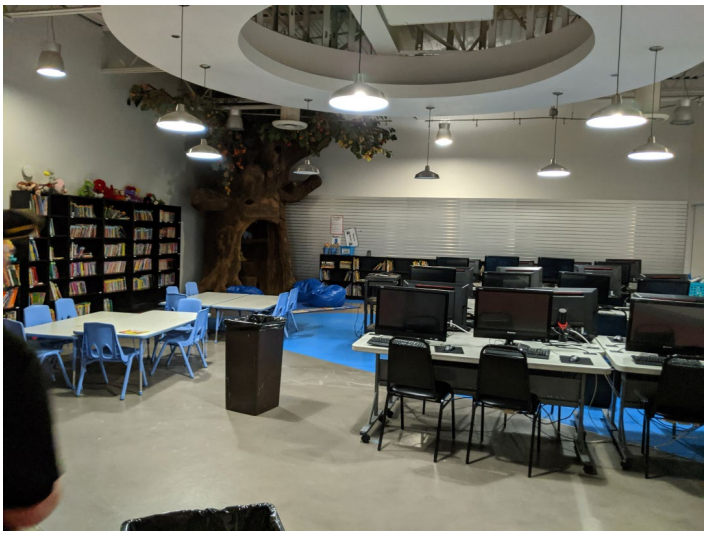
Date: 4/15/2020

Direction: North

Comments: Typical school room on the northeastern portion of the Site.



GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 29 **Date: 4/15/2020** **Direction: East** **Comments:** Computer lab in school area of the building.	

Photograph ID: 30 **Date: 4/15/2020** **Direction: North** **Comments:** Cleaning chemical stored in the school area janitorial closet.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 31 **Date: 4/15/2020** **Direction: Northeast** **Comments:** HVAC and electrical equipment in the mezzanine area of the building.	
Photograph ID: 32 **Date: 4/15/2020** **Direction: North** **Comments:** Electrical equipment in the mezzanine area of the building.	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 33

Date: 4/15/2020

Direction: Northeast

Comments: Electrical panel and dry-type transformer on eastern portion of the building.

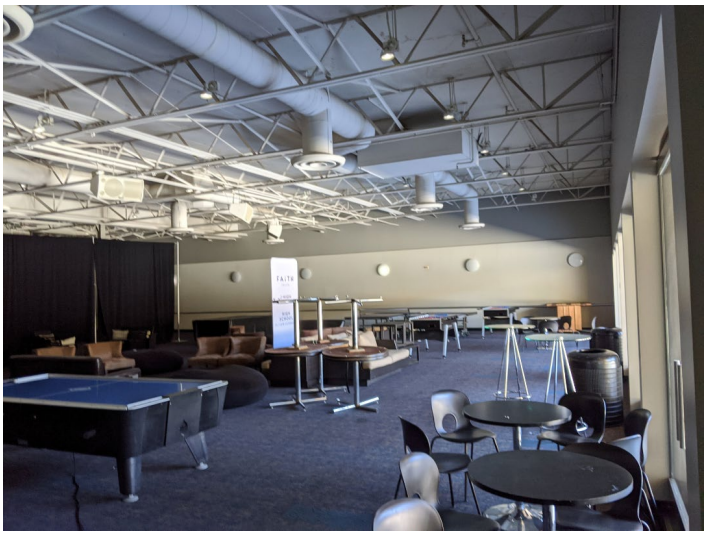


Photograph ID: 34

Date: 4/15/2020

Direction: North

Comments: Storage area on western portion of the building.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 35

Date: 4/15/2020

Direction: South

Comments: Residential area to the south of the Site.



Photograph ID: 36

Date: 4/15/2020

Direction: North

Comments: HYI warehouse building to the west of the Site.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 37

Date: 4/15/2020

Direction: North

Comments: Extra Space Storage building to the west of the Site.



Photograph ID: 38

Date: 4/15/2020

Direction: Northeast

Comments: Partially constructed gas station to the west of the Site.



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 39 **Date: 4/15/2020** **Direction: Southeast** **Comments**: Auto body shop to the west of the Site.	
Photograph ID: 40 **Date: 4/15/2020** **Direction: Southwest** **Comments:** Covina Industrial Park to the west of the Site.	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: Amazon.com Services, Inc. **Project Number: PNR0651FW1/267A**

Site Name: DAX9 **Site Location: West Covina, CA**

Photograph ID: 41

Date: 4/15/2020

Direction: South

Comments: Bud's Muffler Shop to the west of the Site.



Photograph ID: 42

Date: 4/15/2020

Direction: North

Comments: Bud's Muffler Shop to the west of the Site.



GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 43 **Date: 4/15/2020** **Direction: South** **Comments:** Restaurant to the west of the Site.	

Photograph ID: 44 **Date: 4/15/2020** **Direction: North** **Comments:** Residential area to the north of the Site.	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: Amazon.com Services, Inc.	**Project Number: PNR0651FW1/267A**
Site Name: DAX9	**Site Location: West Covina, CA**

Photograph ID: 45	
Date: 4/15/2020	
Direction: South	
Comments: Residential area to the east of the Site.	

APPENDIX B
User-Provided Information

1" = 50'
GRAPHIC SCALE
0 25 50 100

POINT OF COMMENCEMENT
PARCEL 1 & PARCEL 2

POINT OF BEGINNING
PARCEL 1

POINT OF BEGINNING
PARCEL 2

PARCEL 1
EXCEPTING NORTHERLY 7.0' PER INSTRUMENT NO. 1962-3112, & IN BOOK D 1820, PAGE 262, PER DOCUMENT NO. 1995-767076

WEST SAN BERNARDINO ROAD
80' PUBLIC RIGHT OF WAY
(ASPHALT ROADWAY)
CENTERLINE OF RIGHT OF WAY

PARCEL 1
A PORTION OF LOT 31 AND 32 OF THE 576.50 ACRE TRACT W.R. ROWLAND TRACT PER BOOK 42, PAGE 45, AND THAT PORTION OF LOT 1 IN BLOCK 6, PHILLIPS TRACT, PER BOOK 9, PAGE 4, OF MISCELLANEOUS RECORDS.

N/F FAITH
PARCEL NO: 8434-015-018

1 STORY BUILDING
±169,006 SQUARE FEET
(PER FOOT PRINT)
21.2' HIGH

PARCEL 2
A PORTION OF LOT 32 OF THE 576.50 ACRE TRACT W.R. ROWLAND TRACT PER BOOK 42, PAGE 45.

PARCEL 1 & PARCEL 2
EXCEPTING NORTHERLY 10.0' PER INSTRUMENT NO. 1962-3112, & IN BOOK D 1820, PAGE 262, PER DOCUMENT NO. 1995-767076

EAST BADILLO STREET
100' PUBLIC RIGHT OF WAY
(ASPHALT ROADWAY)
CENTERLINE OF RIGHT OF WAY

NORTH VINCENT AVENUE
CENTERLINE OF RIGHT OF WAY

NORTH LAKE ELLEN AVENUE
CENTERLINE OF RIGHT OF WAY

N/F YIN S CHIN
CHUN K TRS; CHIN TRUST
PARCEL NO: 8434-015-017

N/F FAITH CORP
PARCEL NO: 8434-015-016

N/F LAKESIDE PLAZA ANAHEIM LP
PARCEL NO: 8434-015-038

N/F RAYMOND KIANG AND JENNIE TRS; KIANG FAMILY TRUST
PARCEL NO: 8434-015-036

N/F LARK ELLEN LP
PARCEL NO: 8434-015-043

5 15' STORM DRAIN & UTILITY EASEMENT PER RECORDING NO: 2699, IN BOOK D1042, PAGE 769

7 15'x5' PUBLIC UTILITY EASEMENT PER RECORDING NO: 64-4789

6 20'x12' UTILITY EASEMENT PER RECORDING NO: 63-4918

FOUND LEAD&TACK AT INTERSECTION, IN LIEU OF CITY STANDARD MONITORING WELL PER RDFB 1431-100

CENTERLINE INTERSECTION WAS RE-ESTABLISHED FROM FOUND REFERENCE POINTS AROUND MANHOLE, IN LIEU OF LEAD & TACKS FOUND PER RDFB 1431-116.

LEGEND

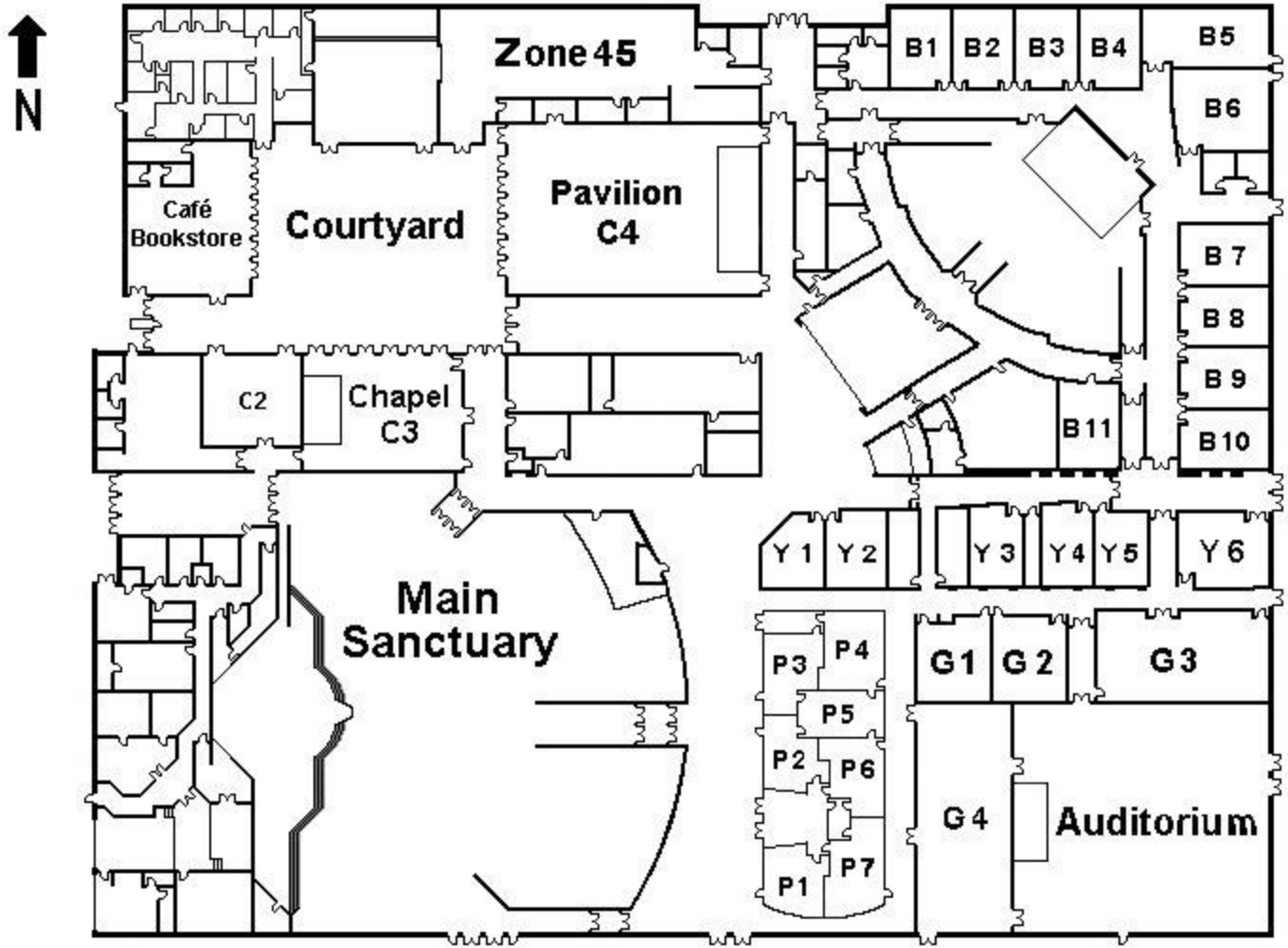
SQ.FT.	SQUARE FEET	N/F	NOW OR FORMALLY
	CONCRETE SURFACE	CC	CONCRETE CURB
	NO PARKING AREA	CC&G	CONCRETE CURB & GUTTER
	HANDICAP PARKING SPACE	EV	ELECTRICAL VAULT
PS	PARKING SPACE(S)	CI	CURB INLET
TF	TRANSFORMER	DI	DRAINAGE INLET
CA	COVERED AREA	WV	WATER VALVE
WM	WATER METER	EB	ELECTRIC BOX
FP	FLAG POLE	EVV	ELECTRICAL VAULT VENT
UL	UTILITY LID	UB	UTILITY BOX
COL	COLUMN	BFP	BACK FLOW PREVENTER
(TYP)	TYPICAL	PIV	POST INDICATOR VALVE
FV	FIRE VAULT	Ⓜ	MANHOLE
FDC	FIRE DEPARTMENT CONTROLLER	Ⓣ	TELEPHONE MANHOLE
UL	UTILITY LID		UTILITY POLE
(TD)	TOTAL DISTANCE		LIGHT POLE
CO	CLEAN OUT		FIRE HYDRANT
PD	PARKWAY DRAINAGE INLET		SIGN
	PROPERTY CORNER (NOT FOUND OR SET)		BOLLARD
	FOUND CORNER AS SHOWN	OHU	OVERHEAD UTILITY LINE
		x	CHAINLINK FENCE
			METAL FENCE

COORDINATED BY:
AEI Consultants
TELEPHONE: 925.746.6000
EMAIL: SURVEYS@AEICONSULTANTS.COM

ALTA/NSPS LAND TITLE SURVEY
AEI JOB # 408040
FAITH CHURCH
1211 EAST BADILLO STREET
LOS ANGELES COUNTY WEST COVINA, CA

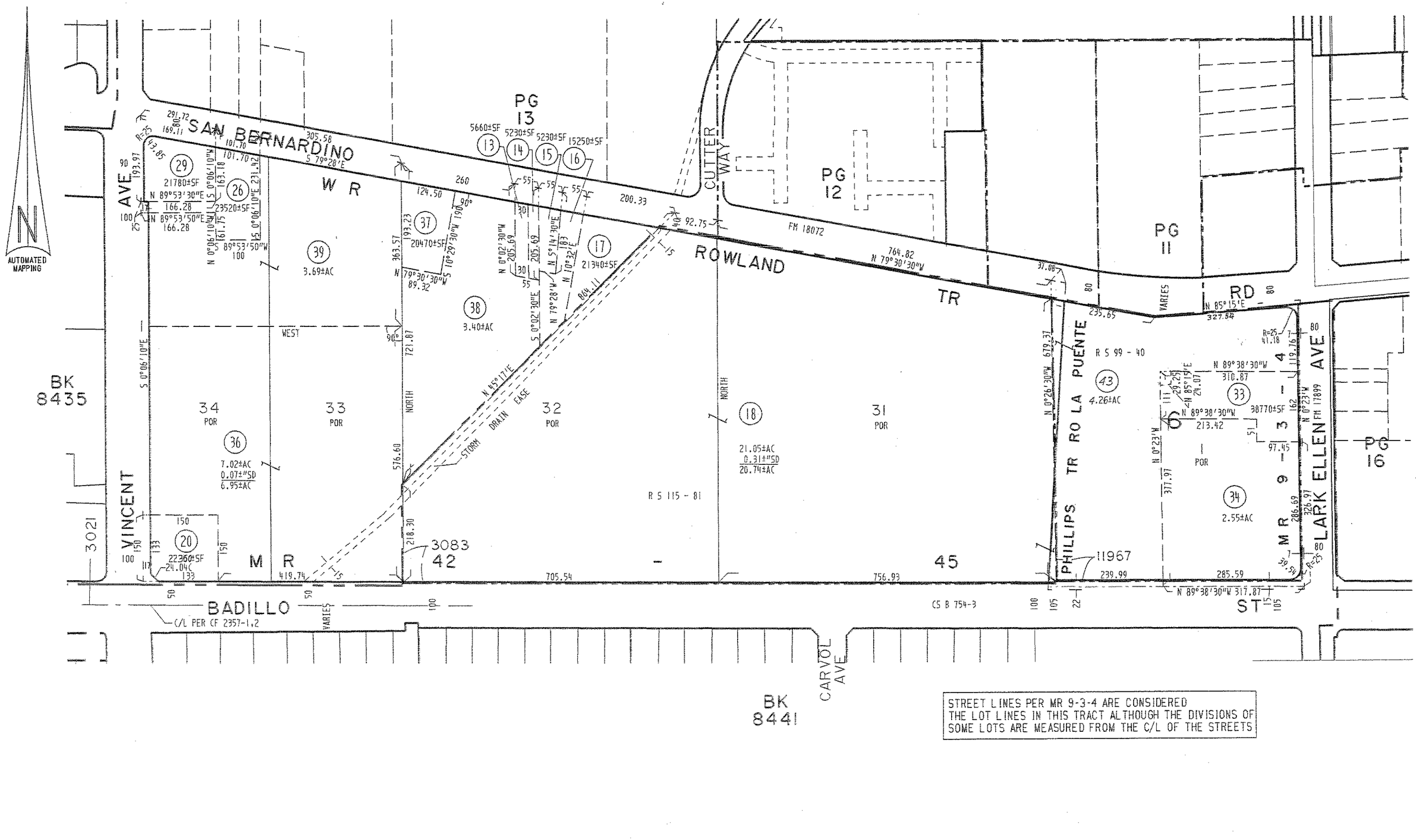
DATE	REVISION HISTORY	BY

SURVEYOR JOB NUMBER: 408040
SCALE: 1" = 50'
DRAWN BY: BEC
APPROVED BY: ESC


N
Zone 45
B1
B2
B3
B4
B5
B6
Café
Bookstore
Courtyard
Pavilion
C4
B 7
B 8
B 9
B10
B11
C2
Chapel
C3
Y 1
Y 2
Y 3
Y 4
Y 5
Y 6
Main
Sanctuary
P3
P4
P5
P2
P6
P1
P7
G1
G 2
G3
G 4
Auditorium

APPENDIX C
Historical Records and Data

2009



STREET LINES PER MR 9-3-4 ARE CONSIDERED
THE LOT LINES IN THIS TRACT ALTHOUGH THE DIVISIONS OF
SOME LOTS ARE MEASURED FROM THE C/L OF THE STREETS

Summary

AIN: 8434-015-018 7

Situs Address:
1211 E BADILLO ST
WEST COVINA CA 91790-1369

Use Type:	Institutional
Parcel Type:	Regular Fee Parcel
Tax Rate Area:	03083
Parcel Status:	**ACTIVE**
Create Date:	
Delete Date:	
Tax Status:	**CURRENT**
Year Defaulted:	
Exemption:	None

Building (0102) & Land Overview

Use Code:	7100
Design Type:	7100
Quality Class:	CX
# of Units:	0
Beds/Baths:	0/0
Building SqFt:	162,213
Year Built:	1963
Effective Year:	1980
Land SqFt:	924,307


(http://assessormap.co.la.ca.us/Geocortex/Essentials/REST/sites/PAIS/VirtualDirectory/AssessorMaps/ViewMap.html?val=8434-015)

Parcel Map (http://assessormap.co.la.ca.us/Geocortex/Essentials/REST/sites/PAIS/VirtualDirectory/AssessorMaps/ViewMap.html?val=8434-015) / Map Index (http://maps.assessor.lacounty.gov/Geocortex/Essentials/REST/sites/PAIS/VirtualDirectory/AssessorMaps/ViewMap.html?val=8434-NDX)

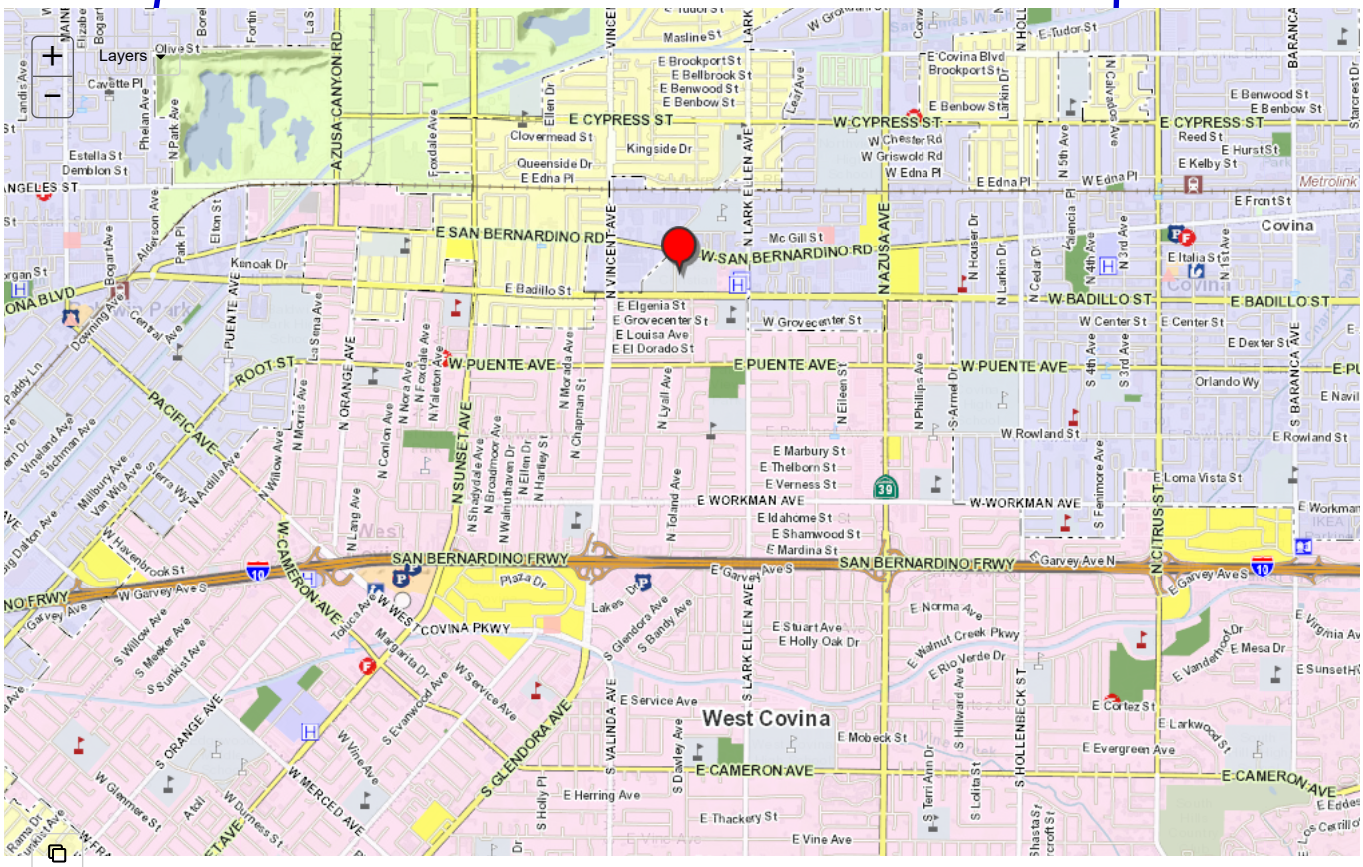
	2020 Roll Preparation		2019 Current Roll	RC	Year		2011 Base Value
$	10,777,564	$	10,566,240	T	2011	$	9,200,000
$	7,263,140	$	7,120,726	T	2011	$	6,200,000
$	18,040,704	$	17,686,966			$	15,400,000

Assessor's Responsible Division

District:	East District Office
Region:	27
Cluster:	27625 BALDWIN PARK

East District Office (https://maps.google.com/?q=1190+Durfee+Ave.+South+El+Monte%2C+CA+91733)
1190 Durfee Ave.
South El Monte, CA 91733

Phone: (626) 258-6001
Toll Free: 1 (888) 807-2111
M-F 7:30 am to 5:00 pm



Building and Land Characteristics

Land Information

Use Code = 7100 (Institutional)

Total SqFt (GIS):	924,307
Total SqFt (PDB):	
Usable SqFt:	903,434
Acres:	
Land W' x D':	0 x 0
Sewers:	Yes
Flight Path:	No
X-Traffic:	Yes
Freeway:	No
Corner Lot:	No
Golf Front:	No
Horse Lot:	No
View:	None
Zoning:	(Refer Issuing Agency)

Code Split: No
Impairment: None

Situs Address:
1211 E BADILLO ST WEST COVINA CA 91790-1369

Legal Description *(for assessment purposes)*:
LOT EX OF ST COM N 79¢30'30" W 37.08 FT FROM NE COR OF LOT 31 TH N 79¢ 30'30" W 857.57 FT TH S 45¢17' W 864.11 FT TH S ON W LINE OF LOT 32 TO N LINE OF BADILLO ST TH E THEREON 1462.47 FT TH N 0¢26'30" E 679.37 FT TO BEG PART OF LOT 1 BLK 6 PHILLIPS TRACT RANCHO LA PUENTE AND PART OF LOTS 31 AND 32, 576.50 ACRE TR KNOWN AS W R ROWLAND TR

Use Code: 7100 (Institutional)
7 = Institutional
1 = Church
0 = Unused or Unknown Code (No Meaning)
0 = One Story

Building Information

SUBPART: ***0102***
Design Type: 7100
Quality Class: CX

of Units: 0
Beds/Baths: 0/0
Building SqFt: 162,213

Year Built: 1963
Effective Year: 1980
Depreciation: MC50 / / 0

RCN Other: $ 0
RCN Other Trended: $ 0
Year Change: 2003

Design Type: 7100
7 = Institutional
1 = Church
0 = Unused or Unknown Code (No Meaning)
0 = Unused or Unknown Code (No Meaning)

SUBPART: ***0202***
Design Type: 2700
Quality Class: 0

of Units: 0
Beds/Baths: 0/0
Building SqFt: 700,000

Year Built: 1963
Effective Year: 1980
Depreciation: UC20 / / 0

RCN Other: $ 0
RCN Other Trended: $ 0
Year Change: 2003

Design Type: 2700
2 = Commercial
7 = Parking Lot (Commercial or Patron)
0 = Unused or Unknown Code (No Meaning)
0 = Unused or Unknown Code (No Meaning)

SUMMARY: ***Total***

of Units: 0
Beds/Baths: 0/0
Building SqFt: 162,213
Avg SqFt/Unit:

Events History

Ownership () | Parcel Change ()

Show Re-Assessable Only:

Recording Date	Seq. #	Re-Assessed	# Parcels	%	Ver. Code	DTT Sale Price	Assessed Value
05/06/2011	50	Yes	1	00%-0	K	$ 9	$ 15,400,000
05/03/1995	50	No		00%-0		$ 0	$ 9,908,780
12/30/1994	50	Yes	1	00%-0	K	$ 7,000,000	$ 9,800,000
01/03/1989	50	Yes	1	00%-0	A	$ 8,000,000	$ 12,940,000
05/30/1986	50	Yes		00%-0		$ 0	$ 5,000,000
12/21/1984	50	Yes		06%-2		$ 0	$ 4,847,734
10/25/1963	50	Yes		00%-0		$ 0	$ 0

Assessment History

Show All: **Hide Inactive Rolls:**

Showing 1 to 10 of 70 entries.

Bill Number	Bill Type	Bill Status	Date to Auditor	Recording Date	Total Value	Land Value	Improvement Value
220-PSEG				05/06/2011	$ 18,040,704	$ 10,777,564	$ 7,263,140
2190003	C	A	10/31/2019	05/06/2011	$ 17,686,966	$ 10,566,240	$ 7,120,726
2190002	C	I	10/06/2019	05/06/2011	$ 17,686,966	$ 10,566,240	$ 7,120,726
2190001	C	I	10/06/2019	05/06/2011	$ 17,686,966	$ 10,566,240	$ 7,120,726
2190000	R	I	07/01/2019	05/06/2011	$ 17,686,966	$ 10,566,240	$ 7,120,726
2180000	R	A	07/19/2018	05/06/2011	$ 17,340,163	$ 10,359,059	$ 6,981,104
2170000	R	A	06/26/2017	05/06/2011	$ 17,000,161	$ 10,155,941	$ 6,844,220
2160000	R	A	07/05/2016	05/06/2011	$ 16,666,825	$ 9,956,805	$ 6,710,020
2150000	R	A	06/23/2015	05/06/2011	$ 16,416,475	$ 9,807,245	$ 6,609,230
2140000	R	A	06/24/2014	05/06/2011	$ 16,094,900	$ 9,615,135	$ 6,479,765

« 1 2 3 4 5 … »

© 2017- Los Angeles County Assessor
Contact Us (https://assessor.lacounty.gov/contact-us/) | Disclaimer (disclaimer) | FAQ (faq)
PDB Effective Date: 03/22/2020

(https://facebook.com/LACAssessor) (https://www.twitter.com/LACASSESSOR) (https://www.linkedin.com/company/los-angeles-county-office-of-the-assessor) (https://youtube.com/u

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Director
9211 Oakdale Avenue
Chatsworth, California 91311

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

April 27, 2020

Rose Propst
Geosyntec
RPropst@Geosyntec.com

Public Records Request Number: PR3-042220-02
Locations: 1211 Badillo Street, West Covina, CA 91791
1211 East Badillo Street, West Covina, CA 91791
1200 East San Bernardino Road, West Covina, CA 91791
1220 West San Bernardino Road, West Covina, CA 91791
APNs: 8434-015-018 & 8434-016-035

Dear Ms. Propst:

On April 22, 2020 the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. DTSC Chatsworth has identified site records responsive to your request for **Hughes Training Inc., aka Honeywell Inc., 1200 E. San Bernardino Road** and is in the process of gathering the requested records. DTSC did not find records for the other addresses and APNs listed above.

Under normal circumstances we would ask you to contact us to schedule an appointment to review these records and would notify you if any of the records were to be withheld from disclosure under the Public Records Act.[1] But, the Covid-19 pandemic shutdown does not allow for such visits in the immediate future. We thank you for recognizing this fact in your request letter and, because of the relatively small file size, are attaching 5 PDFs at no charge in response to your request for electronic copies.

Your request has also been forwarded to our Sacramento and Cypress offices as they might have records, too. The phone number for the Sacramento office is 916-255-3758 and the email address is pubreqact@dtsc.ca.gov.

The phone numbers for the Cypress office are 714-484-5336 or 5337 and the email address is CypressFileRoom@dtsc.ca.gov .

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to **1200 E. San Bernardino Road & 1211 E. Badillo Street**. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov/report_search.cfm?id=5. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

DTSC's E-Waste unit may have records that pertain to **1211 E. Badillo Street.** "E-Waste" refers to any unwanted electronic device or Cathode Ray Tube (CRT) and is classified as universal waste. E-Waste frequently contains hazardous materials, predominantly lead and mercury, and is produced by households, businesses, governments, and industries. I have forwarded your Public Records Act request to that unit for further processing. Please contact them by email at electronicwaste@dtsc.ca.gov if you are interested in this information.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-717-6521 or via email at ChatsworthFileRoom@dtsc.ca.gov .

Respectfully,

Robert Hardison
Chatsworth Regional Records Coordinator

[1] Some of the records may be exempt from disclosure under the Public Records Act because they may be identified as follows: (1) preliminary drafts or notes (Government Code sections 6254(a)); (2) records pertaining to pending litigation (Government Code section 6254(b)); (3) personnel, medical, personal or private information (Government Code sections 6254(c), 6254(k), 6254.3; Civil Code section 1798, et

seq.); (4) records pertaining to complaints or investigations or identification of confidential informant(Government Code section 6254(f)); (5) records covered by the attorney-client privilege (Government Code section 6254(k); Evidence Code section 954); (6) records covered by the attorney work product privilege (Government Code section 6254(k); Code of Civil Procedure section 2018.030); (7) records covered by the deliberative process privilege (Government Code sections 6254(k), 6255; Times Mirror Company v. Superior Court (1991) 53 Cal. 3d 1325); (8) records covered by the official information privilege (Government Code section 6254(k); Evidence Code section1040); and/or (9) records containing confidential business information or trade secrets (Government Code· section 6254(k); California Code of Regulations, title 22, section 66260.2; Evidence Code section 1060; Health and Safety Code sections 25173, 25185(d), 25358.2). (10) records containing geological and geophysical information (Government Code section 6254 (e)). This is not an exhaustive list and other exemptions may prevent disclosure of records.

Attachment G

APPROVED FOR PUBLIC REVIEW FORM
(REGIONAL USE ONLY)

FACILITY NAME: HUGHES

LOCATION: _____

EPA ID# (IF APPLICABLE): _____

NOTE: THE DOCUMENTS FOLLOWING OR UNDER THIS RELEASE FORM WERE REVIEWED FOR CONFIDENTIAL MATERIALS AND ARE APPROVED FOR RELEASE TO THE PUBLIC. THE FILE HAS NOT BEEN REVIEWED BY THE OFFICE OF LEGAL COUNSEL OR THE ATTORNEY GENERAL'S OFFICE, UNLESS THIS FORM HAS BEEN SIGNED BY A REVIEWING ATTORNEY.

REVIEW CONDUCTED BY: Steve Thatcher

DATE REVIEWED: _____

State of California

R3 Board of Equalization

Memorandum

To : H. Roger Pulley
DOHS Toxic Substance Control Division

Date August 2, 1990

From : David McKillip
Excise Tax Division - Environmental Fee Unit

Subject: Honeywell Inc.
HF HQ 38-000072
CAD 008 351 827
Petition for Redetermination
Fiscal Year 1989-90

In reviewing your memo regarding the petition for redetermination of the above account the following items were noted:

1. The copy of the variance referenced in the memo was issued for EPA No. CAD063847529 which is for the Honeywell site located at 17300 Western Ave.. The site in petition status is CAD008351827 located at 1200 E. San Bernardino Rd.

2. The SBE Account No. should read HF HQ 38-000072.

3. The EPA No. should be CAD008351827.

4. The site in question was sold to Hughes Simulation Company on January 1, 1989. The Department has identified both Hughes and Honeywell as small treatment facilities for this site for the fiscal year 1989/90.

Please advise regarding the following questions. Has a variance been issued for CAD008351827? If not, are both Hughes and Honeywell subject to the facility fees for the same site and same period? Please indicate which account, if any, should be billed for 1989/90 and the type of facility.

Enclosed are copies of all related correspondence for your review. Please call me if you have any questions.

DWM:srp

David McKillip

Attachments

cc: Mr. Walt Larsen, DOHS Toxics
Mr. E. V. Anderson
Mr. Robert Frank
Mr. Ross Warren

State of California

Department of Health Services

Memorandum

To : David W. McKillip
Board of Equalization
Excise Tax Unit

Date: April 6, 1990

From : Toxic Substances Control Program
323-3716

Subject : Honeywell, Inc
CAT 008 351 827
HF HQ 38-000272
Petitions for Redetermination
Fiscal Years 1988-89 0
9

Based on a review of the information on the above Petition for Redetermination by the Toxic Substances Control Program, Department of Health Services, the following determination has been made.

A variance from the Department's hazardous waste permit requirements was granted to the above facility on July 27, 1987.

This facility is not subject to a hazardous waste facility fee as a small storage facility for FY 89/90 as specified in the Notice of Determination because the variance was granted prior to that fiscal year. A copy of the variance is attached for your records.

H. ROGER HULLEY
Operations Support - Fees Unit

Attachment

cc: Paul Blais - Hazardous Waste Management
Steve Lavinger - Region 3

CALIFORNIA--HEALTH AND WELFARE AGENCY
ARTMENT OF HEALTH SERVICES
SOUTH BROADWAY, ROOM 7011
OS ANGELES, CA 90012
213) 620-2380

GEORGE DEUKMEJIAN, Governor

July 27, 1987

Mr. Jack Nagy
Honeywell, Inc.
17000 South Western Ave.
Gardena, CA 90247

Dear Mr. Nagy:

HAZARDOUS WASTE FACILITY PERMIT VARIANCE: HONEYWELL, INC.
INTERIM STATUS DOCUMENT NO. CAD063847529

On March 8, 1983, you applied to the Department of Health Services for a variance from the Hazardous Waste Facility Permit Requirements. Your request was for an onsite neutralization of acidic waste water generated from electroplating process of heating control elements. Neutralization involves adding alkaline solution (sodium hydroxide solution) into acidic waste water prior to discharge to the industrial and/or sanitary sewer regulated by the Los Angeles County Sanitation District. Your request is hereby granted based on the information furnished in your application and an inspection conducted by Suwan Sonkprasha on May 8, 1987, and provided you comply with the following conditions:

1) The facility owner/operator shall establish a contingency plan in accordance with Article 20, Chapter 30, Division 4, Title 22, California Administrative Code (CAC).

2) The facility owner/operator shall develop and maintain a personnel training program pursuant to Section 67105 (a) (b) (c) (d) (e) of Article 18, Chapter 30, Division 4, Title 22, CAC.

3) The sign with the legend "Danger Hazardous Waste Area Unauthorized Personnel Keep Out" shall be posted at the active portion of the facility during the treatment process. The legend shall be legible from a distance of at least twenty-five (25) feet.

4) Underground storage tank used for storing waste degreasers shall be completely emptied (no sludges remaining) every ninety (90) days or less.

5) All operations in treating wastes shall be performed under supervision of a well trained personnel and conducted to minimize potential harm to the operators, the public, and the environment.

6) The effluent from the treatment process must meet the discharge requirements specified in the POTW permit issued by the Los Angeles County Sanitation District.

Your Interim Status Document (ISD) No. CAD063847529 is no longer in effect. You are now considered a hazardous waste generator and as such must handle waste properly in accordance with applicable State, Federal, and Local regulations. Within Los Angeles County, regulations are enforced by Los Angeles County Health Department, Hazardous Waste Control Program. You are directed to notify that agency's Hazardous Waste Control Program at (213) 744-3223, within 30 days of receipt of this letter and indicate your status as a hazardous waste generator.

This variance is granted in accordance with California Administrative Code, Division 4, Chapter 30, Title 22, Section 66380. This variance is only for the requirements for hazardous waste facility permits. All other laws and regulations relating to hazardous waste apply to your facility. A copy of this variance must remain at the facility.

Should you have any questions, please feel free to contact Mr. Suwan Sonkprasha at the above telephone number.

Sincerely,

for Carmelita E. Lampard
John A. Hinton, P.E., Chief
Facility Permitting Unit
Southern California Section
Toxic Substances Control Division

JAH:SS:ccs

cc: Caroline Cabias
Department of Health Services
Hazardous Waste Management Section
Toxic Substances Control Division
714/744 "P" Street
Sacramento, CA 95814

Los Angeles County
Department of Health Services
Hazardous Waste Control Program
2615 South Grand Avenue
Los Angeles, CA 90007

Los Angeles County Sanitation District
Industrial Waste Discharge
1955 Workman Mill Road
P.O. Box 4998
Whittier, CA 90607

Certified Mail
(RRR)
P 659 352 305

(1.4)-PAGE 1
FACILITY INVENTORY INFORMATION

CAD008351827 — EPA#
LOS ANGELES — REGION
MIKE ESHAGHIAN — LEAD PERSON
7 23 82 — CREATION DATE

FACILITY NAME: HONEYWELL INC

COMMENTS: N

FACILITY LOCATION ADDRESS	FACILITY MAILING ADDRESS	
	1200 E. SAN BERNARDINO RD.	
1200 E SAN BERNARDINO RD	MS 106	
WEST COVINA	WEST COVINA	
LOS ANGELES	CALIFORNIA	917900000

PLEASE ENTER 'DONE'===)
OR PRESS (ENTER) KEY FOR MORE INFORMATION

36-009232
This site is a generator & pays the generator fee.

(1.4)-PAGE 1
FACILITY INVENTORY INFORMATION

CAD063847529 — EPA#
LOS ANGELES — REGION
UNASSIGNED TSD — LEAD PERSON
7 23 82 — CREATION DATE

FACILITY NAME: HONEYWELL INC.

COMMENTS: N

FACILITY LOCATION ADDRESS	FACILITY MAILING ADDRESS	
17300 WESTERN AVE.	17300 S. WESTERN AVE	
GARDENA	GARDENA	
LOS ANGELES	CALIFORNIA	902470000

PLEASE ENTER 'DONE'===)
OR PRESS (ENTER) KEY FOR MORE INFORMATION

EPA NUMBER NOT FOUND...TRY AGAIN

(1,4:=ENTRY

HWCE FACILITY FILE

FACILITY INVENTORY INFORMATION

PLEASE ENTER:

EPA NUMBER OF FACILITY===> 1:1000851827

(BLANK TO EXIT)

OR ENTER OPTION==========>

F.O. 3-30-90

State of California

Board of Equalization

Memorandum

To : Mr. Roger Pulley
Department of Health Services
Toxic Substances Control Division

Date : March 8, 1990

From : Mr. Dave McKillip
Environmental Fee Unit

Subject : Petition for Retermination for Facility Fees

Honeywell Inc.
HF HQ 38-000072
CAD 008275885

On December 20, 1989, I sent Ms. Dink Mather a memo asking the Department to investigate a petition on the above account. It would appear on the surface that this may be an easy one to resolve. Since we have received several letters and phone calls from the feepayer asking us to resolve the petition, I would appreciate you checking into the matter.

DWM:cls

Enclosures

cc: Dan Tokutomi

State of California

Board of Equalization

Memorandum

To : Ms. Dink Mather
Department of Health Services
Toxic Substance Control Division

Date : December 20, 1989

From : Dave McKillip
Environmental Fee Unit

Subject : Honeywell Inc.
HF HQ 38-000072
CAD 008275883

Your Department identified Honeywell Inc. as a small treatment facility for the 1989/90 fiscal year. Honeywell filed a petition for redetermination indicating that this facility had been sold to Hughes Simulation Company in January of 1989. This petition has been previously forwarded to you.

Attached are copies of two letters from Hughes Simulation Company confirming that the property was purchased by them in January 1989. In addition, the letter dated October 4, 1989 states that Hughes should be classified as a small storage facility for this location.

Please investigate and notify us whether Hughes Simulation Company should be billed as a facility for the 1989/90 fiscal year.

DM:lac

Attachment

0348C

HUGHES

HUGHES SIMULATION SYSTEMS, INC.
Training and Support Systems Group

28 November 1989

RECEIVED
NOV 30 1989
EXCISE TAX

State Board of Equalization
Department of Business Taxes
P.O. Box 942879
Sacramento, CA 94279-0001

Attn: Excise Tax (Facility Fee)

Attached is a facility fee billing from your agency which reflects a fee due and owing to the Department by Honeywell Inc.

Be advised that on 1 January 1989, Honeywell Inc. divested itself of the manufacturing operation located at 1200 E. San Bernardino Rd., West Covina, CA.

All proper forms, letters and applications have been filed with the department to initiate a name change for the above mentioned facility location.

Furthermore, an application for redetermination has been filed with the department.

Hughes Simulation Systems Inc., has yet to receive notification that this new name is in effect, or that action has been taken on the application for redetermination.

Once these issues have been resolved and notification has been provided to the new owner as well as a revised bill, then this matter will receive our prompt attention.

If any further information is needed, please contact the undersigned at (818) 915-9226.

Sincerely,

Howard G. Wright
Sr. Environmental Engineer

Training and Control Systems Division
1200 E. San Bernardino Road
West Covina, CA 91791-1098
(818) 331-0011

04 October 1989

HUGHES

Hughes Simulation Systems, Inc.
Training and Support Systems Group

State Board of Equalization
Department of Business Taxes
P.O. Box 942879
Sacramento, CA 94279-0001

38-000072

RECEIVED
OCT - 6 1989
EXCISE TAX
UNIT

sent ltr to Ken Ford @ for signature to get back to petro Ltr 10-16-89

Attn: Jay Bagley

Dear Mr. Bagley,

Per our conversation on 4 October 1989 concerning the annual facility fees. The following information is being provided.

- Honeywell Inc. no longer own the property located at 1200 E. San Bernardino Rd. This property was purchased by Hughes Simulation Systems Inc. on 1 January 1989. (see attachment I, Application for Registration Excise Tax.)

- Hughes Simulation System Inc. filed for and received a variance from its treatment process. (see attachment II, Confirmation letter from California Department of Health Services, Toxic Substance Control Division.)

- All quarterly hazardous waste taxes for 1 January 1989 through 30 June 1989, under Honeywell Inc. Account No. HAHQ 36-005235. This information should be credited to Hughes Simulation Systems Inc., Account No. HAHQ 36-032470.

Hughes Simulation Systems Inc. should not be classified as a small treatment facility. but should be reclassified as a small storage facility.

Compliance with regulations and payment of the facility fee as a small storage facility is the appropriate classification for this facility. Payment of these facility fees will be promptly remitted once the appropriate billing is received.

In advance your cooperation in this matter is greatly appreciated. Should you have questions do not hestitate to contact me at (818) 916-9226.

Sincerley,

Howard G. Wright
Environmental Engineer

Training and Control Systems Division
1200 E. San Bernardino Road
West Covina, CA 91791-1098
(818) 331-0011

STATE OF CALIFORNIA

STATE BOARD OF EQUALIZATION

1020 N STREET, SACRAMENTO, CALIFORNIA

(P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

Telephone (916) 739-2582

WILLIAM M. BENNETT
First District, Kentfield

CONWAY H. COLLIS
Second District, Los Angeles

ERNEST J. DRONENBURG, JR.
Third District, San Diego

PAUL CARPENTER
Fourth District, Los Angeles

GRAY DAVIS
Controller, Sacramento

CINDY RAMBO
Executive Director

March 14, 1990

Hughes Simulation Systems, Inc.
Attn: Howard G. Wright
1200 E. San Bernadino Road
West Covina, CA 91790

HF HQ 36-005235
HF HQ 38-000072

Dear Mr. Wright:

This letter is in response to our phone conversation on February 28, 1990, in which we discussed Facility Fee determinations against Honeywell Incorporated. I will attempt to confirm our conversation by discussing the history and current status of the Honeywell accounts HF HQ 36-005235 and HF HQ 38-000072.

In the 1987/88 Facility Fee period a determination for a small treatment facility was made against Honeywell, Inc. in the amount of $19668.00. A petition for redetermination was filed for this determination. The basis of the petition was that the 1200 E. San Bernadino Road site was a small storage facility rather than a small treatment. The Department of Health Services reviewed the petition and determined that his site qualified as a small treatment facility and directed the Board to reissue the determination without adjustment. The bill was reissued on October 20, 1989. The current balance as of this date is $19,668.00 in fees, $6170.41 in interest and $1966.80 in penalty. This bill, issued for the July 1, 1987 to June 30, 1988 period, is clearly the responsibility of Honeywell, Inc.

The 1988/89 Facility Fee for a small treatment facility in the amount of $39,950.00 has been paid in full. However, the payment of this determination appears to be the source of some confusion. The small treatment facility fee for the 1988/89 period almost doubled from the previous year. I believe you may have thought that you were paying the 1987/88 fee and the 1988/89 fee, when actually you were paying the two installment billings of the 1988/89 fee.

This brings us to the current billing of the 1989/90 facility fee. This determination was made against Honeywell, Inc. It has been petitioned on the grounds that Honeywell, Inc. ceased operations at this site on December 31, 1988 and that Hughes Simulation Systems, Inc. assumed the ownership and operations of this site on January 1, 1989, six months prior to the fee period.

And furthermore, Hughes had received a variance for its treatment process and should be considered a small storage facility. This petition has been received and forwarded to the Department of Health Services for their review.

Based on this change in ownership the Board of Equalization has closed the Honeywell, Inc. account HA HQ 36-005235 as of 12-31-88 and issued Hughes Simulation Systems, Inc. account HA HQ 36-032470 effective 1-1-89. With the exception of the facility fee bill for 1987/88 established under account HA HQ 36-005235, these accounts will be used for the Hazardous Waste Disposal Fee and Superfund tax only. The facility fee accounts are established based on identification from the Department of Health Services. Although it is apparent to the Board of Equalization that a change in ownership did take place as stated, we cannot adjust or amend determinations made by the Department. As a result of our conversation we have again requested the Department to expedite a reply to this matter. When the Department notifies us that they agree with your statement regarding the change in ownership, the Honeywell, Inc. account, HF HQ 38-000072 will be closed and the 1989/90 fee liability cancelled.

The Department has identified Hughes Simulation Systems, Inc. as owing the 1989/90 Facility Fee. A determination for the facility fee will be forthcoming shortly. Hughes will have 30 days to pay this determination timely. This determination will be for a small treatment facility at $40,000.00. If you believe that you qualify for a small storage facility I suggest you pay the small storage facility fee, $20,000.00, and file a petition for redetermination of the unpaid balance based on your variance you stated had been granted by the Department.

I hope this information is helpful. If you or representatives of Honeywell, Inc. would like to discuss this further, please contact me at (916) 739-2582.

Sincerely,

Ross Warren
Senior Business Tax Representative
Excise Tax Division

RKW:jls

MAR03

STATE OF CALIFORNIA

Reg 3 / 12/4 89/90

NOV 14 1990

STATE BOARD OF EQUALIZATION
1020 N STREET, SACRAMENTO, CALIFORNIA
(P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

(916) 739-3171

WILLIAM M. BENNETT
First District, Kentfield

CONWAY H. COLLIS
Second District, Los Angeles

ERNEST J. DRONENBURG, JR.
Third District, San Diego

PAUL CARPENTER
Fourth District, Los Angeles

GRAY DAVIS
Controller, Sacramento

CINDY RAMBO
Executive Director

November 8, 1990

Hughes Simulation Systems
Mr. Howard G. Wright
1200 E. San Bernardino Road
West Covina, CA 91791-1098

HF HQ 38-000478
Notice of Determination:
September 27, 1990

Dear Mr. Wright:

Your letter dated October 30, 1990 is acknowledged as a petition for redetermination of the notice indicated above. Your letter is also accepted as a late protest of the notice of determination dated August 21, 1990 for the period July 1, 1989 through June 30, 1990. Your protests have been forwarded to the Department of Health Services for their review and consideration. Upon receipt of their analysis, we will again communicate with you.

Because interest is currently calculated at the rate of 1.1667 percent each month or fraction thereof on any unpaid fees, it would be advisable to pay the liabilities or at least any undisputed portions as soon as possible. Any overpaid fees ultimately found not due will be refunded with interest.

Sincerely,

Carol Reisinger
Tax Auditor
Environmental Fees Unit

cc: Jo Nelson, Department of Health Services, Toxic Substance Control Division

bc: Please notify us of the appropriate fee type and size as soon as possible.

Judi Santiago, Compliance

RECEIVED
OCT 31 1990
EXCISE TAX DIVISION

HUGHES

HUGHES SIMULATION SYSTEMS, INC.
Training and Support Systems Group

30 October 1990

California State Board of Equalization
Department of Business Taxes
P.O. Box 94278
Sacramento, California 94279-0001

Gentlemen:

This correspondence is to request a formal hearing before the Regional District Principal for the purpose of reclassifying Hughes Simulation Systems, Inc., (HSSI), as a small storage facility and correct the annual facility fee assessments.

The enclosed documentation and summary sheet of events is provided for your review prior to this meeting.

Should a resolution of the issue stated in the summary sheet be agreeable to all parties, prior to the hearing date, Hughes Simulation Systems, Inc., would consider this issue resolved, with no further action necessary. Absent a satisfactory resolution to the above alternatives, Hughes Simulation Systems, Inc., respectfully requests a hearing before the Board of Equalization in Sacramento, California.

Your cooperation in this matter will be appreciated.

Questions concerning this matter should be directed to the undersigned at (818) 915-9226.

Very truly yours,

HUGHES SIMULATION SYSTEMS, INC.

Howard G. Wright
Safety, Health and Environmental Affairs

HGW:hg

Enclosures

Training and Control Systems Division
1200 E. San Bernardino Road
West Covina, CA 91791-1098
(818) 331-0011

SUMMARY SHEET OF FACTS

1989

A. On 10 July 1989, Hughes Simulation Systems, Inc. (HSSI) filed with the California Department of Health Services (DOHS) an application for a hazardous waste facility permit variance against the 1988-1989 facility fee for reclassification as a small storage facility, since the only treatment of waste water involved elemental neutralization. (Attachment I)

   Under current regulations cited in Title 22, Division 4, Section 66310, a permit variance for elemental neutralization operation is allowed.

B. On 21 August 1989, HSSI received a letter from the California DOHS stating that HSSI does qualify for a variance; however, because of a pending change in the Permit by Rule (PBR) regulations, a variance document was not issued by the DOHS. (Attachment II)

   While the DOHS has the authority to grant a variance, the decision was made to wait until the PBR regulations were authorized by the legislature. Unfortunately, as of the date of this letter, the PBR regulations have yet to be incorporated.

C. As a matter of record, a check for $22,205.00 was submitted to the California State Board of Equalization in 1989 as payment on the 1988-1989 facility fee based on the small storage facility classification.

1990

A. On 21 August 1990, HSSI received a billing from the California Board of Equalization for the 1989-1990 facility fee. This billing identified HSSI as a small treatment facility. HSSI took the following actions to clarify the issue of redetermination for the Board of Equalization. (Attachment III).

   1. Provided a check to the Board of Equalization in the amount of $20,000.00 as payment in full for the taxes owed, based upon the 21 August 1989 letter from the DOHS which stated that HSSI qualified for a variance as a small storage facility.

   2. Included with this check was a copy of the original DOHS application for hazardous waste facility permit variance (see Attachment I), dated 10 July 1989, and the response letter from the DOHS (see Attachment II), dated 21 August 1989.

B. On 27 September 1990, HSSI received the first and second installments of the annual facility fee billing from the California Board of Equalization, and as before, it identified HSSI as a small treatment facility for the fiscal year 1990-1991 (see Attachment IV).

C. On 4 October 1990, HSSI received from the California Board of Equalization, a delinquent notification and demand for payment of the remaining facility fees due for the fiscal year 1989-1990 (see Attachment V).

ISSUES OF RESOLUTION

1. Hughes Simulation Systems, Inc. is requesting that the California Board of Equalization take action to reclassify HSSI as a small storage facility.

2. Furthermore, Hughes Simulation Systems, Inc. is requesting that this redetermination be made retroactive to the beginning of the year 1989.

Hughes Simulation Systems Inc. is prepared to respond in a timely manner, and provide any further information which may be necessary to the California Board of Equalization to resolve this matter.

ATTACHMENT I

APPLICATION FOR HAZARDOUS WASTE FACILITY PERMIT VARIANCE

APPLICATION FOR HAZARDOUS WASTE FACILITY PERMIT VARIANCE

California State Department of Health Services
Toxic Substances Control Division

Complete this application and submit it along with the information identified in the attached Supporting Documentation for Variance Application to the:

DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL DIVISION
REGION 3
1405 No. San Fernando Blvd. #300
Burbank, CA 91504

I. The facility is owned /operated by Hughes Simulation Systems Inc.

and is located at 1200 E. San Bernardino Road, West Covina, CA 91790.

The facility is operating under Interim Status Document

See Exhibit B /EPA ID# CAD 008351827.

II. Identify below all hazardous waste management operations at the facility. (Check all applicable items).

A. Container Storage

( ) Onsite storage less than 90 Days.
(x) Onsite storage more than 90 days. (Maximum one year)
( ) Onsite storage of small quantities more than 90-days. (Maximum one year).

B. Tank Storage

( ) Above ground tank ( ) Underground tank
( ) Tank located within a vault
( ) Onsite storage less than 90 days (total tank contents must be emptied)
( ) Onsite storage more than 90 days (Maximum one year)

C. Treatment System

(x) System located above ground
( ) System located underground
(x) Elementary neutralization unit
( ) Totally enclosed treatment facility

( ) Wastewater pretreatment unit
( ) Physical, chemical or biological treatment prior to disposal
( ) Other (Specify)_____.

III. Identify the operation for which you are requesting a variance and reasons for request.

Variance is requested for the above ground elementary neutralization system. Also see Exhibit A. Response 2, 3, 4 & 5.

A principal executive officer for a corporation, general partner or proprietor for a partnership and a principal executive officer for a public agency must certify the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Stuart Moore — Hughes Simulation Systems Inc.
(Name and Signature) (Company or Applicant)

Vice President/General Manager — 1200 E. San Bernardino Rd.,West Covina, CA 9179
(Title) (Mailing Address)

Howard G. Wright — (818) 915-9226
(Contact Person) (Telephone Number)

10 July 1989
(Date)

The following information is in support of this request for variance:

1. TYPE OF FACILITY:

The requesting facility is located on 22.8 acres of land with a 165,000 sq. ft. manufacturing/engineering single level structure located in accordance with Figure I. The facility is located in a commercial/residential area. The facility type is best described as a storage activity.

2. LENGTH OF TIME WASTE IS STORED AT THE FACILITY:

The neutralized process waste is stored for one and a maximum of two days before being submitted to the Los Angeles County Sanitation District for disposition.

3. FACILITY DESIGN:

The system consists of a ventilated commercial acid booth constructed of fiberglass, stainless steel and a minimum amount of mild steel supports. This booth as been modified to contain a 20" x 30" x 36" fiberglass holding tank with a portable fiberglass cover and an appropriate plastic drain. The holding tank drain pipe with check valves are connected to the sewer system.

The system was constructed in 1968, the neutralization tank was replaced most recently in 1986.

The system does not have a secondary containment system installed which is in accordance with the regulations. Land use of the property is limited to parking areas for employees, the 165,000 sq. ft. manufacturing/engineering facility, an 8,000 sq. ft. temporary trailer complex and a permitted hazardous waste storage facility. Zoning of the property is classified as I.P. (Industrial Park).

The waste neutralization system is located in accordance with the drawing shown in Figure II.

4. WASTE CHARACTERIZATION:

The waste stream is a neutralized process residue of sulfuric acid which as been neutralized with soda ash and de-ionized water.

In the disposal stage, the waste stream is completely compatible with the holding tank, which is constructed of fiberglass. The monthly generation of treated waste under normal operation conditions is approximately 840 gallons, the annual generation is approximately 10,000 gallons. A physical or chemical analysis of the waste has not been performed, as the three constituents, sulfuric acid, de-ionized water and soda ash are known. The holding tank is isolated and not contaminated with any other hazardous waste stream before being submitted to the Los Angeles County Sanitation District via the sewer system for final disposition.

5. PROCESS:

The waste stream is the residual material from the process of using undiluted sulfuric acid to etch the surface of a 12 inch diameter solid rubber disk. The rubber disk is placed inside a laboratory type acid resistant hood where undiluted sulfuric acid is poured onto the face of the disk, at the end of a predetermined period of time, a liquid mixture of de-ionized water and soda ash are poured on top of the disk. After the two mixtures are co-mingled, the solution is poured into the sink which drains directly into a fiberglass holding tank.

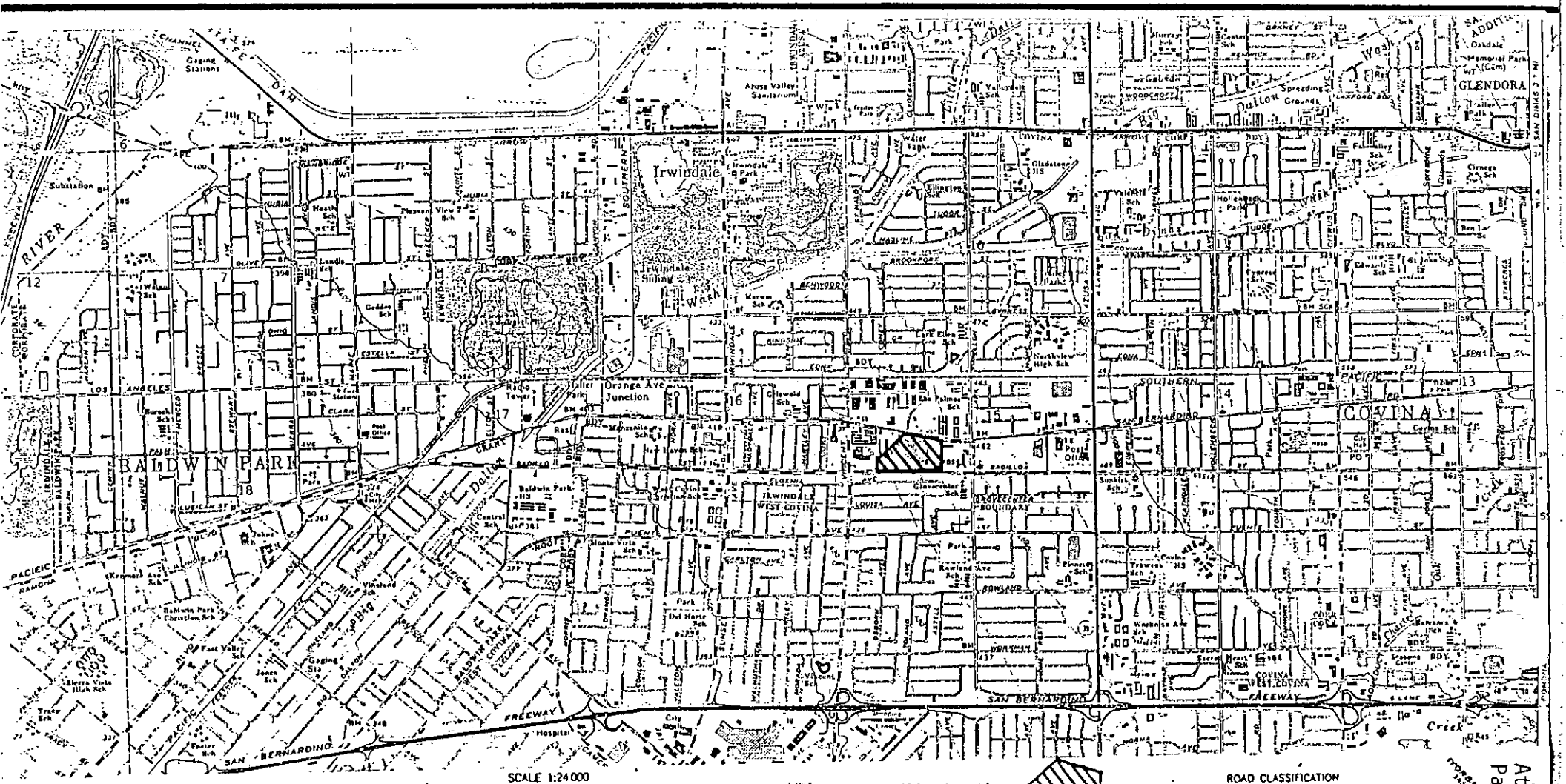
This tank has a 40 gallon capacity which is large enough to hold the process material from an 8-hour per day, 21 day per month production shift. At the completion of the shift, litmus paper is used to adjust the neutral point of the waste stream in the tank to a PH of 6.0 - 7.0. The solution is thoroughly mixed and rechecked. If the ph remains unchanged, the solution is then released to the Sanitation District through the sewer system for final disposition. A treatment flow chart is provided as Figure III.

6. Property Security is provided by chain link fence or 20' high building walls. Security is provided by a 24 hour, 7 days a week manned security department.

The process is located in the Building itself, it is a stand alone system inside a key locked room. All appropriate warning signs, personnel protective clothing and training have been provided for employees working in this area.

7. This facility does not have plans to install any type of underground storage tank.

8. This facility is not and has never been a transfer facility.



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

Heavy duty ———— Light-duty ———— ————

Medium-duty ———— Unimproved dirt - - - - - - - -

Interstate Route State Route

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

CALIF.

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple and woodland compiled from aerial photographs taken 1978 and other sources. This information not field checked. Map edited 1981

Purple tint indicates extension of urban areas

BALDWIN PARK, CALIF.
N3400—W11752.5/7.5

1966
PHOTOREVISED 1981
DMA 2452 III SW—SERIES V885

FIGURE 1

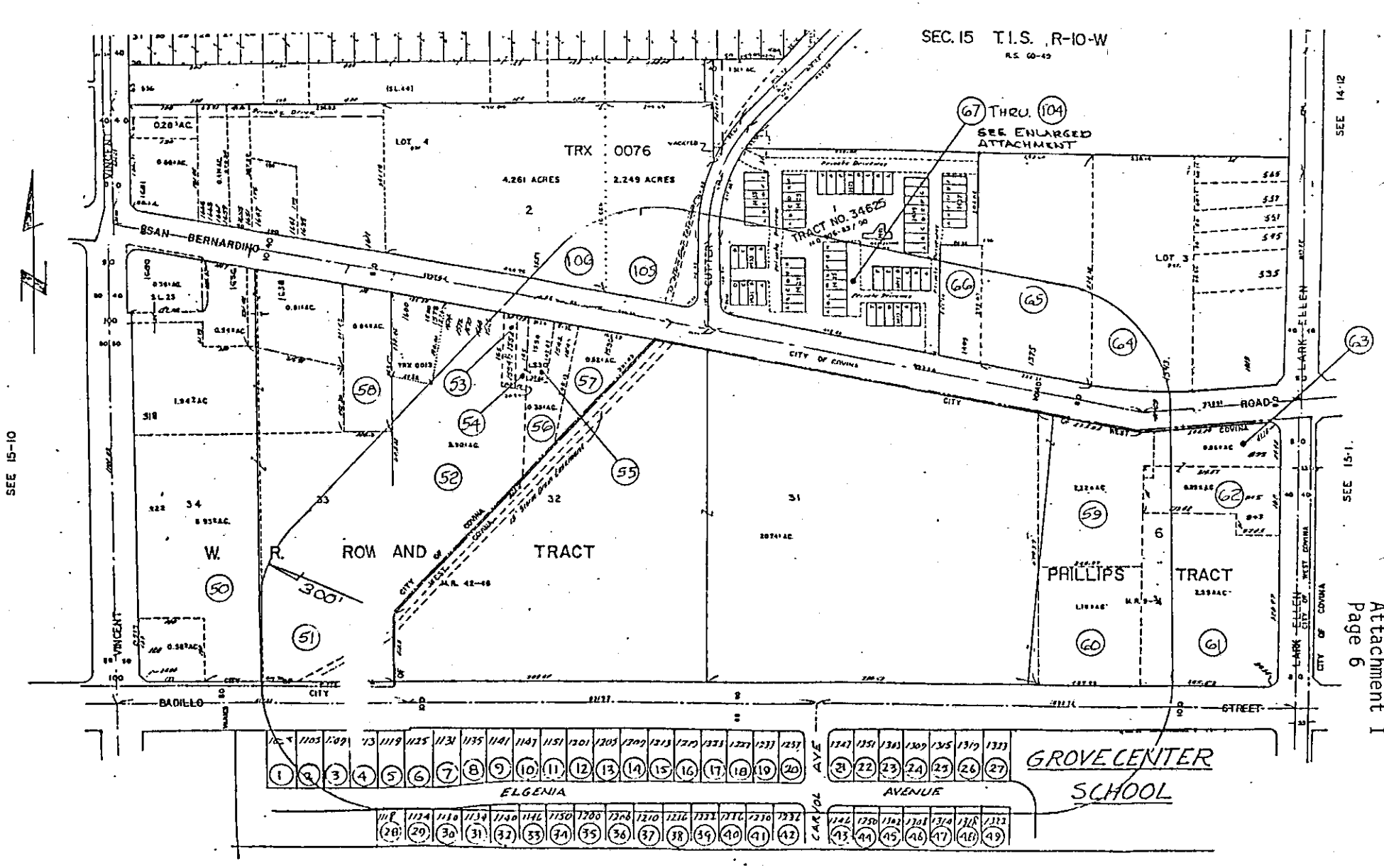
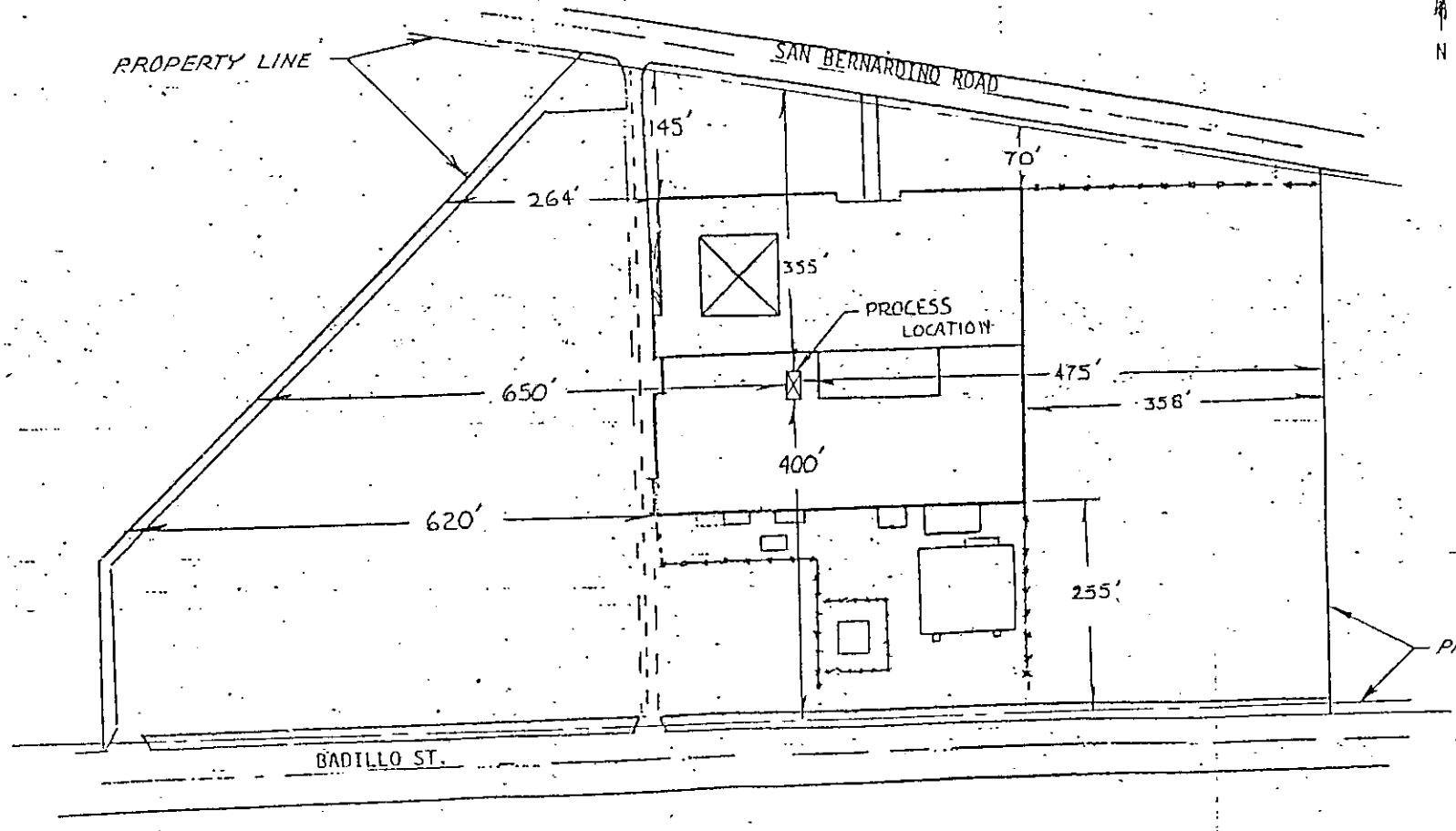


FIGURE I

300 FOOT RADIUS MAP (CONTINUED)

HONEYWELL



1200 E. SAN BERNARDINO ROAD
WEST COVINA, CALIF.

FIGURE II

Diaphram Bonding Process (Sulfuric Acid)

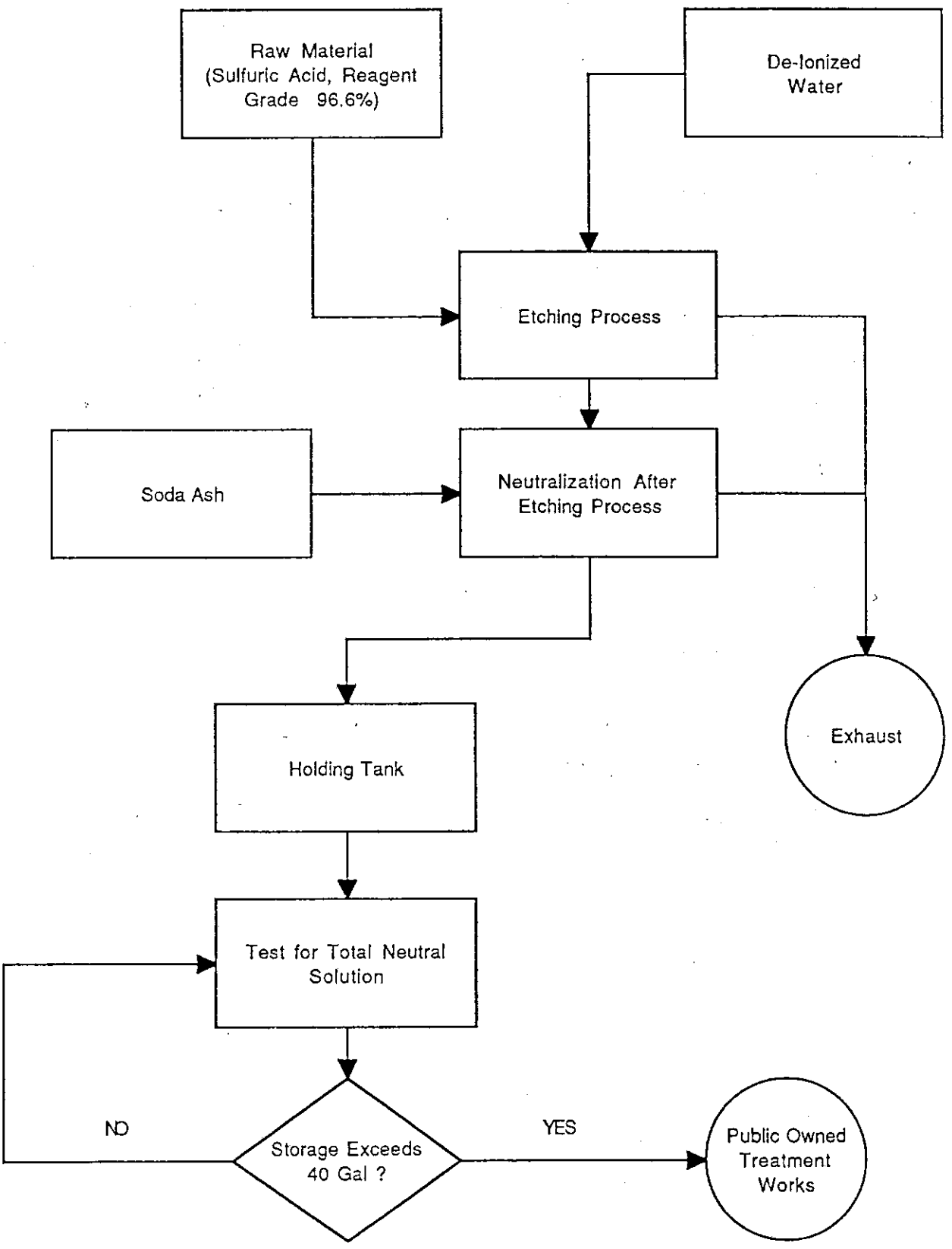


FIGURE III

ATTACHMENT II

RESPONSE LETTER FROM DEPARTMENT OF HEALTH SERVICES

TO HSSI VARIANCE REQUEST

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY
DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL DIVISION (REGION 3)
1405 N. SAN FERNANDO BOULEVARD, SUITE 300
BURBANK, CA 91504

ATTACHMENT II

GEORGE DEUKMEJIAN, Governor

AUG 21 1989

Mr. Howard G. Wright
Environmental and Safety Engineer
Hughes Simulation Systems Incorporated
1200 East San Bernardino Road
West Covina, CA 91790

Dear Mr. Wright:

ELEMENTARY NEUTRALIZATION REGULATORY PROCEDURES

The Department has received your application dated July 10, 1989 requesting a variance from facility permitting requirements to conduct elementary neutralization at your facility located at 1200 East San Bernardino Road, West Covina, CA 91790.

On site facility elementary neutralization is one of the activities that is included in the Department's Permit Streamlining Program. The program intends to regulate these activities through a Permit-by-rule (PBR) approach which will expedite the permit process by notifying all affected facilities, in one rule making, of their responsibilities under the law.

The PBR regulations are in draft form at the present time and are not expected to be implemented until during the first quarter of the calendar year 1990. Until such time as PBR becomes regulation the Department has been instructed not to issue variances to those facilities whose waste streams and/or processes fall into any of the categories to be covered by the PBR regulations.

Because of the above Departmental procedures, a variance cannot be issued to your facility for elementary neutralization because this activity will be regulated by proposed PBR regulations.

If you have any questions please contact Mr. Harold Peters of the Department's Alternative Technology Section at telephone #(916)-322-8126.

Sincerely,

for John A. Hinton, P.E., Chief
Facility Permitting Unit

JAH:SH:sh

cc: See next page

ATTACHMENT III

CALIFORNIA STATE BOARD OF EQUALIZATION

1989-1990 FACILITY FEE BILLING AND

HUGHES SIMULATION SYSTEMS,INC. CHECK

BT-1210 REV. 5 (12-86)

ATTACHMENT III

Page 1 | PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

EXCISE TAX (FACILITY FEE) (916) 739-2582

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: AUGUST 21,1990

ACCOUNT NUMBER: HF HQ 38-000478

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/89-06/30/90	40000.00			40000.00
L--0000				
TOTAL	40000.00			40000.00
			****PAY THIS AMOUNT	40000.00

ADDITIONAL INTEREST OF $466.66 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 09/30/90.

ADDITIONAL PENALTY OF 4000.00 IF NOT PAID BEFORE 09/20/90.

DETERMINATION FOR SMALL TREATMENT

FACILITY FEE FOR YOUR 1200 E.SAN

BERNADINO SITE, EPA # CAD008351827

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.

PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

ATTACHMENT III
Page 2

BT-1210 REV. 5 (12-84)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE	PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: AUGUST 21,1990.

ACCOUNT NUMBER

HF HQ 38-000478

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

Hughes Simulation Systems Inc.
WEST COVINA, CALIFORNIA

VOUCHER NO. 079876

DATE	SEQUENCE NO.	INVOICE NO.	CODE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
09-07-90						$**20,000.00
STATE BOARD OF EQUALIZATION						
FACILITY ASSESSMENT FEE FROM				07/01/89 - 06/30/90		
3943-1849						

64-1278
611

Hughes Simulation Systems Inc.
1200 E. SAN BERNARDINO ROAD
WEST COVINA, CA 91790

CHECK NO. 079876

VENDOR NO. | DATE 09-07-90

AMOUNT
$ **20,000.00

PAY TO THE ORDER OF STATE BOARD OF EQUALIZATION

Hughes Simulation Systems Inc.

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

"THE CITIZENS AND SOUTHERN NATIONAL BANK ATLANTA DEKALB COUNTY GEORGIA"

⑈079876⑈ ⑆061112788⑆ 011 29 006⑈

ATTACHMENT IV

CALIFORNIA STATE BOARD OF EQUALIZATION

ANNUAL FACILITY BILLING FOR 1990-1991

BT-1210 REV. 5 (12-86)

ATTACHMENT IV

RE Page 1 | PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

EXCISE TAX (FACILITY FEE) (916) 739-2582

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER: HF HQ 38-000479

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/90-06/30/91	21060.00			21060.00
L--0000				
TOTAL	21060.00			21060.00
****PAY THIS AMOUNT				21060.00

ADDITIONAL INTEREST OF $245.70 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 11/01/90.

ADDITIONAL PENALTY OF 2106.00 IF NOT PAID BEFORE 11/01/90.

FIRST INSTALLMENT FACILITY FEE.

THE DEPARTMENT OF HEALTH SERVICES HAS NOTIFIED US THAT YOU ARE RESPONSIBLE FOR FACILITY FEES AS INDICATED ABOVE FOR EPA NO. CAD008351827, OPERATING AT 1200 E SAN BERNARDINO RD AS A SMALL TREATMENT FACILITY.

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210 REV. 5 (12-86)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE	PM
EFFECTIVE DATE OF PAYMENT	
MO. DAY YEAR	

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER: HF HQ 38-00047

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.
PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE. THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210 REV. 5 (12-86)

PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001
EXCISE TAX (FACILITY FEE) (916) 739-2582

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER

HF HQ 33-000477

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/90-06/30/91	21060.00			21060.00
L--0000				
TOTAL	21060.00			21060.00
****PAY THIS AMOUNT				21060.00

ADDITIONAL INTEREST OF $245.70 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 04/01/91.

ADDITIONAL PENALTY OF 2106.00 IF NOT PAID BEFORE 04/01/91.

SECOND INSTALLMENT FACILITY FEE.

THE DEPARTMENT OF HEALTH SERVICES HAS NOTIFIED US THAT YOU ARE RESPONSIBLE FOR FACILITY FEES AS INDICATED ABOVE FOR EPA NO. CAD008351827, OPERATING AT 1200 E.SAN BERNARDINO RD. AS A SMALL TREATMENT FACILITY.

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210.REV. 5 (12-84)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE	PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER: HF HQ 38-000472

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.
PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE. THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

ATTACHMENT V

CALIFORNIA STATE BOARD OF EQUALIZATION

NOTICE OF 1989-1990 FACILITY FEE DELINQUENCY

STATE OF CALIFORNIA

K 3 Cup

STATE BOARD OF EQUALIZATION
1020 N STREET, SACRAMENTO, CALIFORNIA
(P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

(916) 739-3171

NOV 14 1990

WILLIAM M. BENNETT
First District, Kentfield

CONWAY H. COLLIS
Second District, Los Angeles

ERNEST J. DRONENBURG, JR.
Third District, San Diego

PAUL CARPENTER
Fourth District, Los Angeles

GRAY DAVIS
Controller, Sacramento

CINDY RAMBO
Executive Director

November 8, 1990

Hughes Simulation Systems
Mr. Howard G. Wright
1200 E. San Bernardino Road
West Covina, CA 91791-1098

HF HQ 38-000478
Notice of Determination:
September 27, 1990

Dear Mr. Wright:

Your letter dated October 30, 1990 is acknowledged as a petition for redetermination of the notice indicated above. Your letter is also accepted as a late protest of the notice of determination dated August 21, 1990 for the period July 1, 1989 through June 30, 1990. Your protests have been forwarded to the Department of Health Services for their review and consideration. Upon receipt of their analysis, we will again communicate with you.

Because interest is currently calculated at the rate of 1.1667 percent each month or fraction thereof on any unpaid fees, it would be advisable to pay the liabilities or at least any undisputed portions as soon as possible. Any overpaid fees ultimately found not due will be refunded with interest.

Sincerely,

Carol Reisinger
Tax Auditor
Environmental Fees Unit

cc: Jo Nelson, Department of Health Services, Toxic Substance Control Division

bc: Please notify us of the appropriate fee type and size as soon as possible.

Judi Santiago, Compliance

OCT 3 1 1990
EXCISE TAX DIVISION

HUGHES

HUGHES SIMULATION SYSTEMS, INC.
Training and Support Systems Group

30 October 1990

California State Board of Equalization
Department of Business Taxes
P.O. Box 94278
Sacramento, California 94279-0001

Gentlemen:

This correspondence is to request a formal hearing before the Regional District Principal for the purpose of reclassifying Hughes Simulation Systems, Inc., (HSSI), as a small storage facility and correct the annual facility fee assessments.

The enclosed documentation and summary sheet of events is provided for your review prior to this meeting.

Should a resolution of the issue stated in the summary sheet be agreeable to all parties, prior to the hearing date, Hughes Simulation Systems, Inc., would consider this issue resolved, with no further action necessary. Absent a satisfactory resolution to the above alternatives, Hughes Simulation Systems, Inc., respectfully requests a hearing before the Board of Equalization in Sacramento, California.

Your cooperation in this matter will be appreciated.

Questions concerning this matter should be directed to the undersigned at (818) 915-9226.

Very truly yours,

HUGHES SIMULATION SYSTEMS, INC.

Howard G. Wright
Safety, Health and Environmental Affairs

HGW:hg

Enclosures

Training and Control Systems Division
1200 E. San Bernardino Road
West Covina, CA 91791-1098
(818) 331-0011

SUMMARY SHEET OF FACTS

1989

A. On 10 July 1989, Hughes Simulation Systems, Inc. (HSSI) filed with the California Department of Health Services (DOHS) an application for a hazardous waste facility permit variance against the 1988-1989 facility fee for reclassification as a small storage facility, since the only treatment of waste water involved elemental neutralization. (Attachment I)

   Under current regulations cited in Title 22, Division 4, Section 66310, a permit variance for elemental neutralization operation is allowed.

B. On 21 August 1989, HSSI received a letter from the California DOHS stating that HSSI does qualify for a variance; however, because of a pending change in the Permit by Rule (PBR) regulations, a variance document was not issued by the DOHS. (Attachment II)

   While the DOHS has the authority to grant a variance, the decision was made to wait until the PBR regulations were authorized by the legislature. Unfortunately, as of the date of this letter, the PBR regulations have yet to be incorporated.

C. As a matter of record, a check for $22,205.00 was submitted to the California State Board of Equalization in 1989 as payment on the 1988-1989 facility fee based on the small storage facility classification.

1990

A. On 21 August 1990, HSSI received a billing from the California Board of Equalization for the 1989-1990 facility fee. This billing identified HSSI as a small treatment facility. HSSI took the following actions to clarify the issue of redetermination for the Board of Equalization. (Attachment III).

   1. Provided a check to the Board of Equalization in the amount of $20,000.00 as payment in full for the taxes owed, based upon the 21 August 1989 letter from the DOHS which stated that HSSI qualified for a variance as a small storage facility.

   2. Included with this check was a copy of the original DOHS application for hazardous waste facility permit variance (see Attachment I), dated 10 July 1989, and the response letter from the DOHS (see Attachment II), dated 21 August 1989.

B. On 27 September 1990, HSSI received the first and second installments of the annual facility fee billing from the California Board of Equalization, and as before, it identified HSSI as a small treatment facility for the fiscal year 1990-1991 (see Attachment IV).

C. On 4 October 1990, HSSI received from the California Board of Equalization, a delinquent notification and demand for payment of the remaining facility fees due for the fiscal year 1989-1990 (see Attachment V).

ISSUES OF RESOLUTION

1. Hughes Simulation Systems, Inc. is requesting that the California Board of Equalization take action to reclassify HSSI as a small storage facility.

2. Furthermore, Hughes Simulation Systems, Inc. is requesting that this redetermination be made retroactive to the beginning of the year 1989.

Hughes Simulation Systems Inc. is prepared to respond in a timely manner, and provide any further information which may be necessary to the California Board of Equalization to resolve this matter.

ATTACHMENT I

APPLICATION FOR HAZARDOUS WASTE FACILITY PERMIT VARIANCE

APPLICATION FOR HAZARDOUS WASTE FACILITY PERMIT VARIANCE

California State Department of Health Services
Toxic Substances Control Division

Complete this application and submit it along with the information identified in the attached Supporting Documentation for Variance Application to the:

DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL DIVISION
REGION 3
1405 No. San Fernando Blvd. #300
Burbank, CA 91504

I. The facility is owned /operated by Hughes Simulation Systems Inc.

and is located at 1200 E. San Bernardino Road, West Covina, CA 91790.

The facility is operating under Interim Status Document

See Exhibit B /EPA ID# CAD 008351827.

II. Identify below all hazardous waste management operations at the facility. (Check all applicable items).

A. Container Storage

( ) Onsite storage less than 90 Days.
(x) Onsite storage more than 90 days. (Maximum one year)
( ) Onsite storage of small quantities more than 90-days. (Maximum one year).

B. Tank Storage

( ) Above ground tank ( ) Underground tank
( ) Tank located within a vault
( ) Onsite storage less than 90 days (total tank contents must be emptied)
( ) Onsite storage more than 90 days (Maximum one year)

C. Treatment System

(x) System located above ground
( ) System located underground
(x) Elementary neutralization unit
( ) Totally enclosed treatment facility

( ) Wastewater pretreatment unit
( ) Physical, chemical or biological treatment prior to disposal
( ) Other (Specify)_____.

III. Identify the operation for which you are requesting a variance and reasons for request.

Variance is requested for the above ground elementary neutralization system. Also see Exhibit A. Response 2, 3, 4 & 5.

A principal executive officer for a corporation, general partner or proprietor for a partnership and a principal executive officer for a public agency must certify the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Stuart Moore — Hughes Simulation Systems Inc.
(Name and Signature) (Company or Applicant)

Vice President/General Manager — 1200 E. San Bernardino Rd.,West Covina, CA 9179
(Title) (Mailing Address)

Howard G. Wright — (818) 915-9226
(Contact Person) (Telephone Number)

10 July 1989
(Date)

The following information is in support of this request for variance:

1. TYPE OF FACILITY:

   The requesting facility is located on 22.8 acres of land with a 165,000 sq. ft. manufacturing/engineering single level structure located in accordance with Figure I. The facility is located in a commercial/residential area. The facility type is best described as a storage activity.

2. LENGTH OF TIME WASTE IS STORED AT THE FACILITY:

   The neutralized process waste is stored for one and a maximum of two days before being submitted to the Los Angeles County Sanitation District for disposition.

3. FACILITY DESIGN:

   The system consists of a ventilated commercial acid booth constructed of fiberglass, stainless steel and a minimum amount of mild steel supports. This booth as been modified to contain a 20" x 30" x 36" fiberglass holding tank with a portable fiberglass cover and an appropriate plastic drain. The holding tank drain pipe with check valves are connected to the sewer system.

   The system was constructed in 1968, the neutralization tank was replaced most recently in 1986.

   The system does not have a secondary containment system installed which is in accordance with the regulations. Land use of the property is limited to parking areas for employees, the 165,000 sq. ft. manufacturing/engineering facility, an 8,000 sq. ft. temporary trailer complex and a permitted hazardous waste storage facility. Zoning of the property is classified as I.P. (Industrial Park).

   The waste neutralization system is located in accordance with the drawing shown in Figure II.

4. WASTE CHARACTERIZATION:

   The waste stream is a neutralized process residue of sulfuric acid which as been neutralized with soda ash and de-ionized water.

   In the disposal stage, the waste stream is completely compatible with the holding tank, which is constructed of fiberglass. The monthly generation of treated waste under normal operation conditions is approximately 840 gallons, the annual generation is approximately 10,000 gallons. A physical or chemical analysis of the waste has not been performed, as the three constituents, sulfuric acid, de-ionized water and soda ash are known. The holding tank is isolated and not contaminated with any other hazardous waste stream before being submitted to the Los Angeles County Sanitation District via the sewer system for final disposition.

5. PROCESS:

The waste stream is the residual material from the process of using undiluted sulfuric acid to etch the surface of a 12 inch diameter solid rubber disk. The rubber disk is placed inside a laboratory type acid resistant hood where undiluted sulfuric acid is poured onto the face of the disk, at the end of a predetermined period of time, a liquid mixture of de-ionized water and soda ash are poured on top of the disk. After the two mixtures are co-mingled, the solution is poured into the sink which drains directly into a fiberglass holding tank.

This tank has a 40 gallon capacity which is large enough to hold the process material from an 8-hour per day, 21 day per month production shift. At the completion of the shift, litmus paper is used to adjust the neutral point of the waste stream in the tank to a PH of 6.0 - 7.0. The solution is thoroughly mixed and rechecked. If the ph remains unchanged, the solution is then released to the Sanitation District through the sewer system for final disposition. A treatment flow chart is provided as Figure III.

6. Property Security is provided by chain link fence or 20' high building walls. Security is provided by a 24 hour, 7 days a week manned security department.

The process is located in the Building itself, it is a stand alone system inside a key locked room. All appropriate warning signs, personnel protective clothing and training have been provided for employees working in this area.

7. This facility does not have plans to install any type of underground storage tank.

8. This facility is not and has never been a transfer facility.

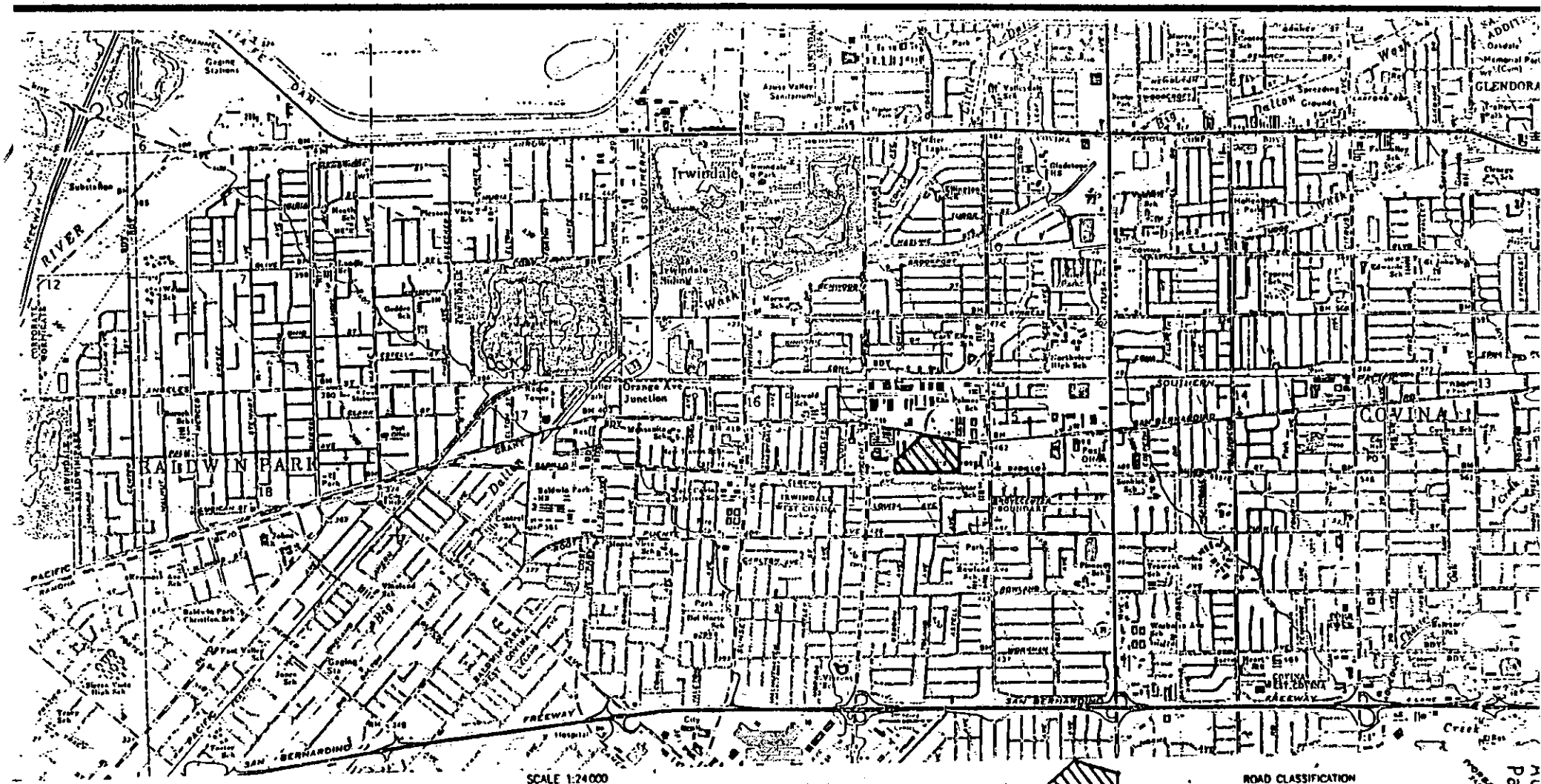
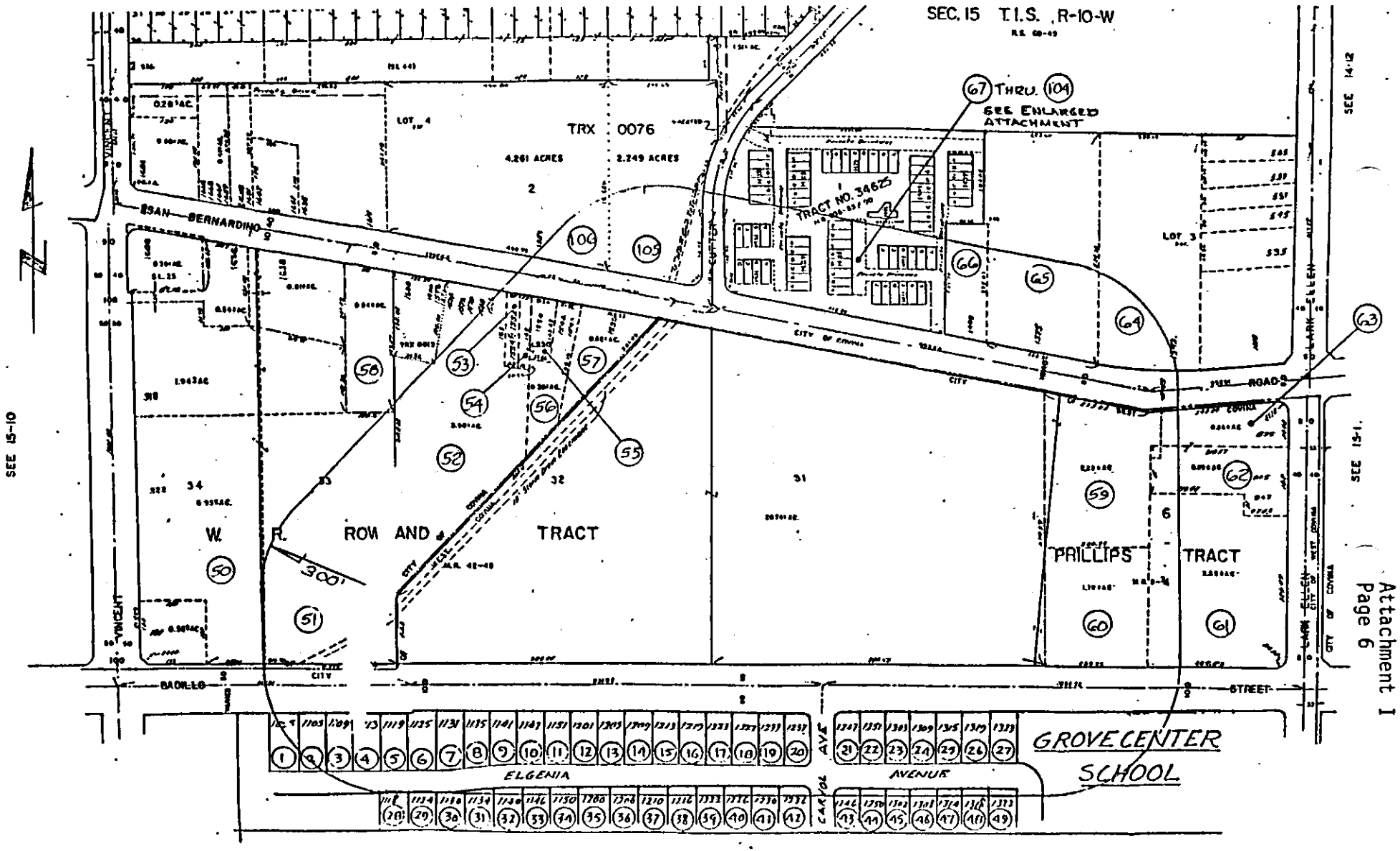

Irwindale
BALDWIN PARK
COVINA
GLENDORA
Orange Ave Junction
RIVER
FREEWAY
SAN BERNARDINO
SCALE 1:24000
Facility Location
ROAD CLASSIFICATION
Heavy duty
Medium duty
Light duty
Unimproved dirt
Interstate Route
State Route
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
QUADRANGLE LOCATION
Revisions shown in purple and woodland compiled from aerial photographs taken 1978 and other sources. This information not field checked. Map edited 1981
Purple tint indicates extension of urban areas
BALDWIN PARK, CALIF.
N3400—W11752.5/7.5
1966
PHOTOREVISED 1981
DMA 3432 III SW—SERIES V885

FIGURE 1



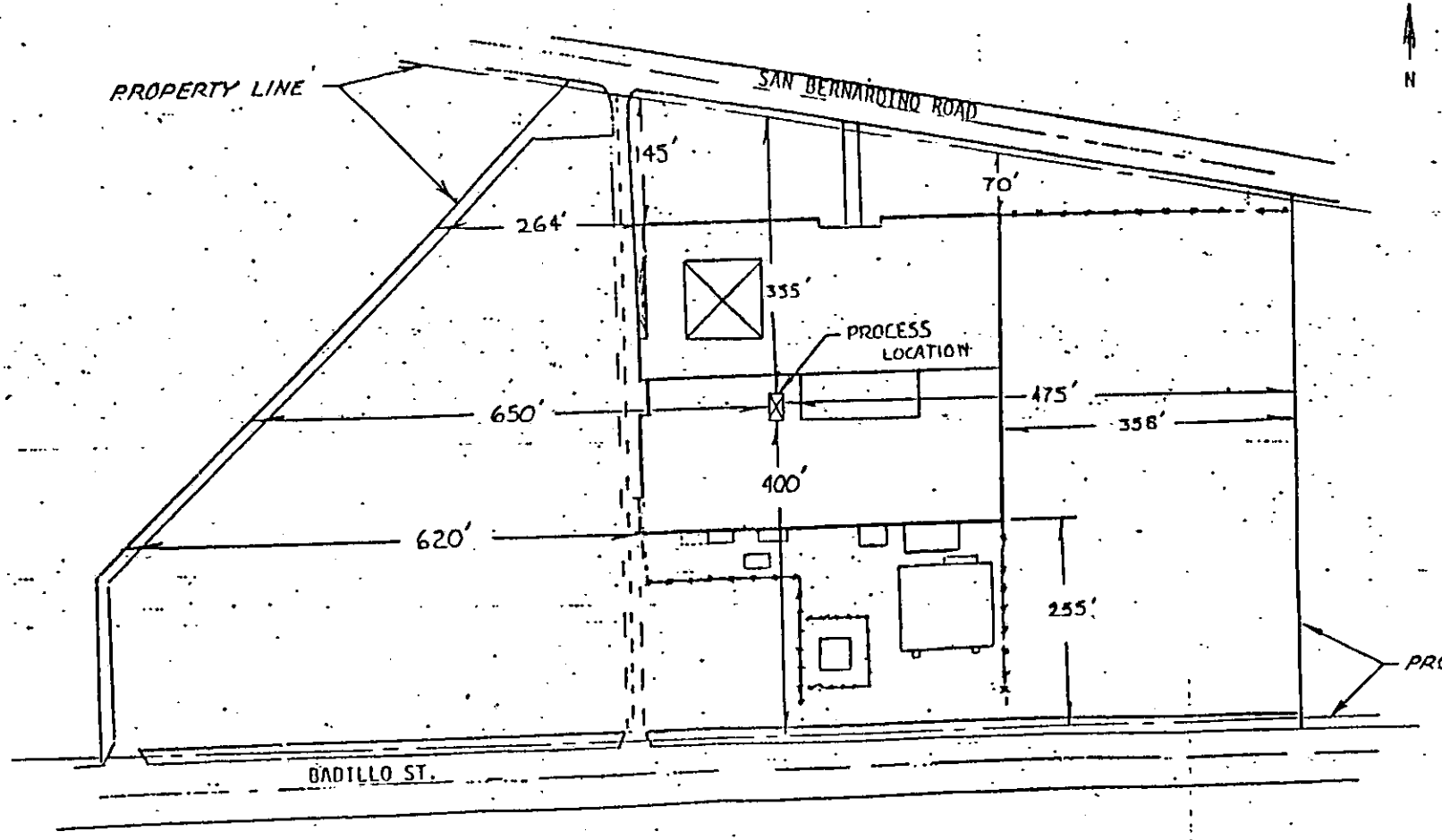
Attachment 1
Page 6

PAGE 2 OF 2

FIGURE 1

300 Foot Radius Map (CONTINUED)

HONEYWELL



1200 E. SAN BERNARDINO ROAD
WEST COVINA, CALIF.

FIGURE II

Diaphram Bonding Process (Sulfuric Acid)

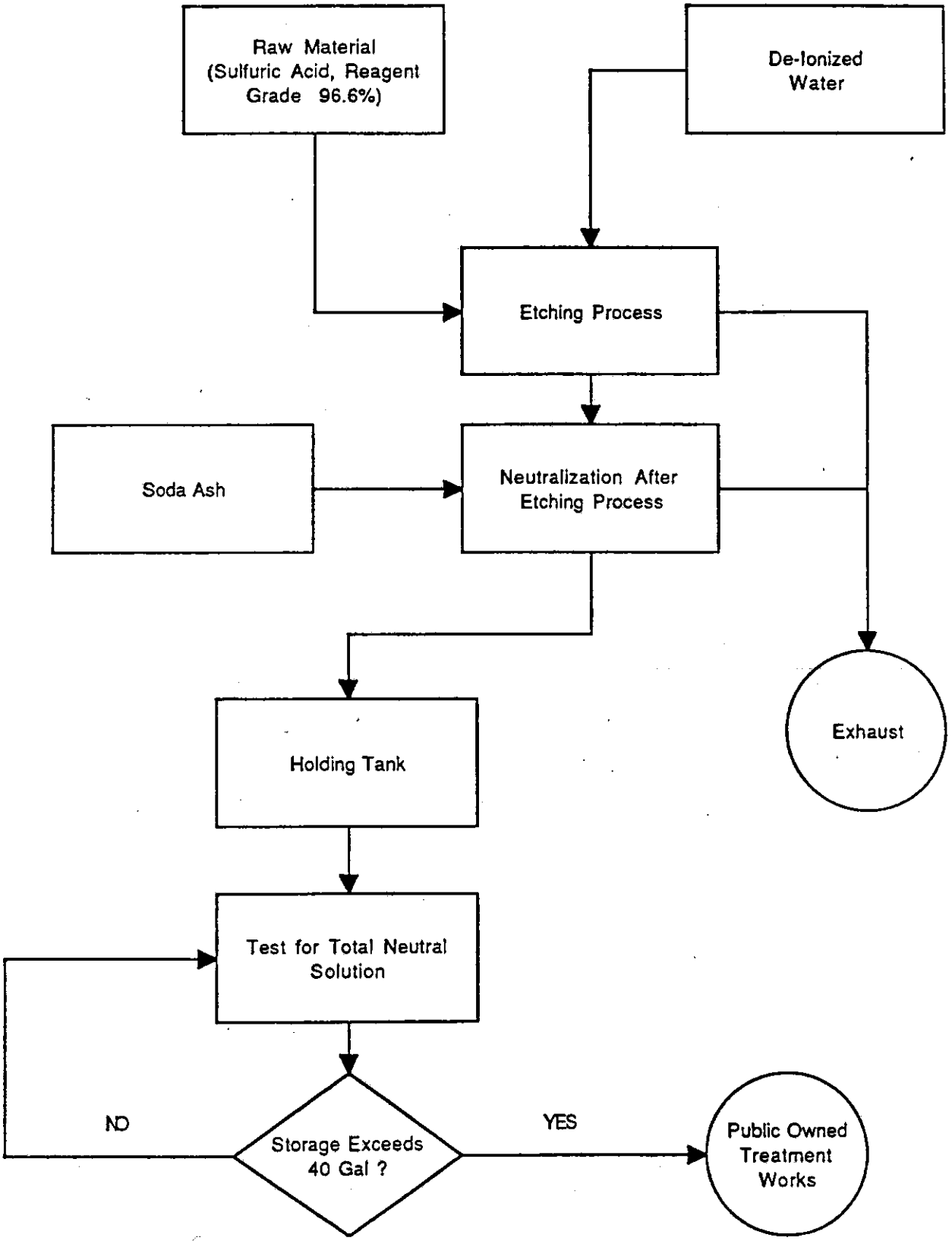


FIGURE III

ATTACHMENT II

RESPONSE LETTER FROM DEPARTMENT OF HEALTH SERVICES

TO HSSI VARIANCE REQUEST

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY

DEPARTMENT OF HEALTH SERVICES

TOXIC SUBSTANCES CONTROL DIVISION (REGION 3)
1405 N. SAN FERNANDO BOULEVARD, SUITE 300
BURBANK, CA 91504

ATTACHMENT II

GEORGE DEUKMEJIAN, Governor

AUG 21 1989

Mr. Howard G. Wright
Environmental and Safety Engineer
Hughes Simulation Systems Incorporated
1200 East San Bernardino Road
West Covina, CA 91790

Dear Mr. Wright:

ELEMENTARY NEUTRALIZATION REGULATORY PROCEDURES

The Department has received your application dated July 10, 1989 requesting a variance from facility permitting requirements to conduct elementary neutralization at your facility located at 1200 East San Bernardino Road, West Covina, CA 91790.

On site facility elementary neutralization is one of the activities that is included in the Department's Permit Streamlining Program. The program intends to regulate these activities through a Permit-by-rule (PBR) approach which will expedite the permit process by notifying all affected facilities, in one rule making, of their responsibilities under the law.

The PBR regulations are in draft form at the present time and are not expected to be implemented until during the first quarter of the calendar year 1990. Until such time as PBR becomes regulation the Department has been instructed not to issue variances to those facilities whose waste streams and/or processes fall into any of the categories to be covered by the PBR regulations.

Because of the above Departmental procedures, a variance cannot be issued to your facility for elementary neutralization because this activity will be regulated by proposed PBR regulations.

If you have any questions please contact Mr. Harold Peters of the Department's Alternative Technology Section at telephone #(916)-322-8126.

Sincerely,

for John A. Hinton, P.E., Chief
Facility Permitting Unit

JAH:SH:sh

cc: See next page

ATTACHMENT III

CALIFORNIA STATE BOARD OF EQUALIZATION

1989-1990 FACILITY FEE BILLING AND

HUGHES SIMULATION SYSTEMS,INC. CHECK

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001
(916) 739-2582

IN REPLY REFER TO:

EXCISE TAX (FACILITY FEE)

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: AUGUST 21,1990

ACCOUNT NUMBER

HF | HQ | 38-000478

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/89-06/30/90	40000.00			40000.00
L--0000				
TOTAL	40000.00			40000.00
****PAY THIS AMOUNT				40000.00

ADDITIONAL INTEREST OF $466.66 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 09/30/90.

ADDITIONAL PENALTY OF 4000.00 IF NOT PAID BEFORE 09/20/90.

DETERMINATION FOR SMALL TREATMENT

FACILITY FEE FOR YOUR 1200 E. SAN

BERNADINO SITE, EPA # CAD008351827

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.

PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210.REV. 5 (12-86)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE | PM

EFFECTIVE DATE OF PAYMENT
MO. DAY YEAR

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: AUGUST 21,1990

ACCOUNT NUMBER
HF HQ 38-000478

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

Hughes Simulation Systems Inc.
WEST COVINA, CALIFORNIA

VOUCHER NO. 079876

DATE	SEQUENCE NO.	INVOICE NO.	CODE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
09-07-90						$**20,000.00
STATE BOARD OF EQUALIZATION						
FACILITY ASSESSMENT FEE FROM 07/01/89 - 06/30/90						
3943-1849						

64-1278
611

Hughes Simulation Systems Inc.
1200 E. SAN BERNARDINO ROAD
WEST COVINA, CA 91790

CHECK NO. 079876

VENDOR NO. | DATE: 09-07-90

AMOUNT: $**20,000.00

PAY TO THE ORDER OF STATE BOARD OF EQUALIZATION

Hughes Simulation Systems Inc.

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

"THE CITIZENS AND SOUTHERN NATIONAL BANK ATLANTA DEKALB COUNTY GEORGIA"

"079876" :061112788: 011 29 006"

ATTACHMENT IV

CALIFORNIA STATE BOARD OF EQUALIZATION

ANNUAL FACILITY BILLING FOR 1990-1991

BT-1210 REV. 8 (12-86)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE Page 1 | PM

EFFECTIVE DATE OF PAYMENT
MO. DAY YEAR

EXCISE TAX (FACILITY FEE) (916) 733-2582

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER: HF HQ 38-000479

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/90-06/30/91	21060.00			21060.00
L--0000				
TOTAL	21060.00			21060.00
			***PAY THIS AMOUNT	21060.00

ADDITIONAL INTEREST OF $245.70 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 11/01/90.

ADDITIONAL PENALTY OF 2106.00 IF NOT PAID BEFORE 11/01/90.

FIRST INSTALLMENT FACILITY FEE.

THE DEPARTMENT OF HEALTH SERVICES HAS NOTIFIED US THAT YOU ARE RESPONSIBLE FOR FACILITY FEES AS INDICATED ABOVE FOR EPA NO. CAD008351827, OPERATING AT 1200 E SAN BERNARDINO RD AS A SMALL TREATMENT FACILITY.

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210 REV. 5 (12-84)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE Page 2 | PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER: HF HQ 33-00047

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.
PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE. THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BT-1210 REV. 5 (12-84)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

EFFECTIVE DATE OF PAYMENT
MO. DAY YEAR

IN REPLY REFER TO:

EXCISE TAX (FACILITY FEE) (916) 739-2582

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER
HF HQ 33-000472

NOTICE OF DETERMINATION

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW (FACILITY FEE)

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL
AS DETERMINED 07/01/90-06/30/91	21060.00			21060.00
L--0000				
TOTAL	21060.00			21060.00
****PAY THIS AMOUNT				21060.00

ADDITIONAL INTEREST OF $245.70 ACCRUES ON THE AMOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 1.1666 OF ONE PERCENT (.011667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 04/01/91.

ADDITIONAL PENALTY OF 2106.00 IF NOT PAID BEFORE 04/01/91.

SECOND INSTALLMENT FACILITY FEE.

THE DEPARTMENT OF HEALTH SERVICES HAS NOTIFIED US THAT YOU ARE RESPONSIBLE FOR FACILITY FEES AS INDICATED ABOVE FOR EPA NO. CAD008351827, OPERATING AT 1200 E.SAN BERNARDINO RD. AS A SMALL TREATMENT FACILITY.

INFORMATION CONCERNING DETERMINATIONS

A PERSON AGAINST WHOM A DETERMINATION IS MADE OR ANY PERSON DIRECTLY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30 DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS UPON WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBMIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUEST.

IF A HEARING IS DESIRED, IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST. THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

BE 1216,REV. 5 (12-84)

STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE	PM

EFFECTIVE DATE OF PAYMENT

MO. DAY YEAR

IN REPLY REFER TO:

HUGHES SIMULATION SYSTEMS INC.
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790

DATE: SEPTEMBER 27,1990

ACCOUNT NUMBER

HF	HQ	33-00047

NOTICE OF DETERMINATION

PAGE 2

	AMOUNT			
	FEE	INTEREST	PENALTY	TOTAL

UNTIL 30 DAYS AFTER THE DATE OF A NOTICE OF REDETERMINATION.
PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE. THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

PLEASE RETURN THIS COPY WITH YOUR PAYMENT
ALWAYS WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK OR MONEY ORDER

ATTACHMENT V

CALIFORNIA STATE BOARD OF EQUALIZATION

NOTICE OF 1989-1990 FACILITY FEE DELINQUENCY

MF

FINAL CLOSURE PLAN FOR THE HAZARDOUS WASTE STORAGE FACILITY HUGHES TRAINING INC.

Prepared for

Hughes Training Inc.
1200 E. San Bernardino Road
West Covina, California

A Subsidiary of Hughes
Aircraft Company's Systems Sector

Prepared by

CH2M HILL

2510 Red Hill Avenue
P.O. Box 15950
Santa Ana, CA 92705-0960

May 1994

Contents

Section			Page
1	**Facility Identification**		**1-1**
	1.1	Facility Name	1-1
	1.2	EPA ID Number	1-2
	1.3	Facility Address	1-2
	1.4	Mailing Address	1-2
	1.5	Contact Person	1-2
	1.6	Facility Operator	1-2
	1.7	Owner	1-2
	1.8	Preparer of Closure Plan	1-2
	1.9	Nature of Business	1-3
	1.10	Environmental Permits	1-3
	1.11	Certification	1-3
2	**Facility Location**		**2-1**
	2.1	Size	2-1
	2.2	Topographic Map	2-1
	2.3	Hydrogeological Conditions	2-1
	2.4	Weather and Climatic Conditions	2-7
3	**Facility Design**		**3-1**
	3.1	Hazardous Waste Management Units	3-1
	3.2	Types and Quantities of Hazardous Waste	3-5
4	**Hazardous Waste Constituents**		**4-1**
	4.1	List of Hazardous Waste Constituents	4-1
5	**Estimate and Management of Maximum Inventory**		**5-1**
	5.1	Maximum Inventory of Hazardous Waste	5-1
	5.2	Management of Maximum Inventory	5-2
	5.3	Land Disposal Restrictions	5-4
	5.4	Changes in Maximum Inventory	5-4
6a	**Decontamination Procedures**		**6-a1**
	6.1a	Identification of all Areas Requiring Decontamination	6-a1
	6.2a	Decontamination Procedures	6-a1

Contents
(continued)

6b Sampling Plan for Characterization of Wastes Generated During Closure 6b-1
6.1b Containment System 6-1
6.2b Rinsate 6-1

7 Confirmation Sampling Plan for Containment Structures 7-1

8 Soil Sampling Plan 8-1
8.1 Objective 8-1
8.2 Sampling Locations and Depths 8-1
8.3 Types of Soil Samples 8-1
8.4 Sample Collection Methods 8-3
8.5 Quality Control Samples 8-3
8.6 Chain-of-Custody Procedures 8-6
8.7 Sample Labeling, Packaging, and Transportation 8-6
8.8 Documentation 8-8

9 Analytical Test Methods 9-1
9.1 Constituents of Concern 9-1
9.2 EPA-Approved Test Methods 9-1
9.3 Other Analytical Test Methods 9-2

10 Groundwater Sampling and Monitoring Plan 10-1

11 Closure Performance Standards (Cleanup Levels) 11-1
11.1 Soil Cleanup Standards 11-1
11.2 Containment Structures 11-1

12 Soil Removal/Cleanup Procedures 12-1

13 Closure Cost Estimate 13-1
13.1 Itemized Activities 13-1
13.2 Twenty Percent Contingency Factor 13-1
13.3 Update of Cost Estimate 13-1

14 Financial Responsibility 14-1
14.1 Mechanism for Financial Assurance 14-1
14.2 Update of Financial Assurance 14-1
14.3 Mechanism for Liability Coverage 14-1

Contents
(continued)

15 Closure Implementation Schedule 15-1
15.1 Expected Year of Final Closure 15-1
15.2 Schedule 15-1
15.3 Procedures to Request Extension 15-1
15.4 Use of Closed Area Prior to Approval 15-1

16 Closure Certification Report Requirements 16-1
16.1 Maintenance of Closure Documents 16-1
16.2 Closure Certification 16-1

17 Health and Safety Plan 17-1

18 Site Security 18-1
18.1 Security Measures 18-1
18.2 Access Control 18-1
18.3 Alternate Access Control 18-1

Appendix A. Max of N
Appendix B. Statistical Strategies—HWSA (Rectangular or Irregular Shapes)
Appendix C. Financial Assurance Statements and Corporate Guarantee
Appendix D. Health and Safety Plan

Contents
(continued)

Tables

Number		Page
3-1	Design Capacity of the HWSA	3-4
3-2	Hazardous Wastes Stored at the HWSA	3-6
5-1	Maximum Quantity of Hazardous Waste Shipped Offsite	5-2
8-1	Sampling Procedures and Sampling Tool Decontamination Procedures	8-4
8-2	Analysis, Sample Container, Preservation Methods, and Holding Times	8-7
9-2	Screening Levels for Constituents of Concern	9-3
13-1	Itemized Closure Cost Estimate for the HWSA	13-2

Figures

Number		Page
2-1	Facility Location	2-2
2-2	Facility Plot Plan	2-3
2-3	Topographic Map	2-4
2-4	Drainage Map	2-5
2-8	Areas of Contamination in Relation to HTI Facility	2-8
3-1	Hazardous Waste Storage Area	3-2
3-2	Hazardous Waste Storage Area Layout	3-3
8-1	Soil Sampling Locations	8-2
8-2	Approximate Background Soil Sampling Locations	8-4
15-1	Proposed Closure Implementation Schedule	15-2

Section 1

Facility Identification

[22 CCR 66270.14(b)(1)]

This closure plan describes activities that will be undertaken for the final closure of the Hazardous Waste Storage Area (HWSA) at Hughes Training Inc.'s (HTI's) West Covina facility. The format of this closure plan follows the Closure Plan Checklist found in Appendix A of the *Permit Writer Instructions for Closure of Storage and Treatment Facilities (Draft Working Copy)*, prepared by the California Environmental Protection Agency Department of Toxic Substances Control (DTSC), Program Involvement Workgroup 2, revised January 1994. The checklist is dated April 1993.

HTI is a subsidiary of Hughes Aircraft Company's Systems Sector. HTI's West Covina facility is located at 1200 E. San Bernardino Road, West Covina, California. The HWSA consists of a single building detached from the primary manufacturing building. The structure consists of a metal roof, four metal walls, and a concrete storage pad with berms and sumps. Types of wastes generated and stored at the facility were typical for the manufacture and assembly of electronic components and accessories. The major wastes generated included halogenated solvents, machine cutting fluids, organic solvents and paints, corrosive wastes, and reactive materials.

A closure plan for the facility was submitted to DTSC in October 1992, at which time the West Covina facility was still operating. Operations at the facility have ceased since about February 1993; the facility buildings, including the HWSA, are empty and the property is for sale. This revised closure plan is being submitted to meet DTSC's April 1993 checklist requirements and because closure activities to be conducted have changed since the 1992 plan. Because HTI and the prospective new owner of the property has no use for the HWSA, the HWSA will be demolished as part of closure activities, and the soils beneath the concrete pad will be sampled to identify any releases. Contamination of soils is not expected. Based on an investigation conducted in 1989 at the HTI facility, contamination of either soil or groundwater was not found (O.H. Material Investigation Report, 31 August 1989).

The intent of the closure is to determine if waste management activities at the HWSA have caused a release of hazardous wastes beyond the secondary containment system, and to eliminate the need for postclosure maintenance through clean closure. If analysis of soil samples collected during closure indicates no release of hazardous constituents, and upon completion of activities detailed in this closure plan, HTI's West Covina facility will cease to be a treatment, storage, or disposal facility (TSDF).

1.1 Facility Name

Hughes Training Inc.
A subsidiary of Hughes Aircraft Company's Systems Sector

1.2 EPA ID Number

CAD008351827

1.3 Facility Address

1200 E. San Bernardino Road
West Covina, CA 91791

1.4 Mailing Address

PO Box 6171
Arlington, Texas 76005-6171

Attn: Joe Teel
Mail Station: 110

1.5 Contact Person

Mr. Joe Teel
Quality Assurance/Safety, Health, and Environmental Affairs (SHEA) Principal
(817) 695-2145

1.6 Facility Operator

Hughes Training Inc.
A subsidiary of Hughes Aircraft Company's Systems Sector

1.7 Owner

a. Facility Owner

Hughes Training Inc.
A subsidiary of Hughes Aircraft Company's Systems Sector

b. Landowner

Hughes Training Inc.

1.8 Preparer of Closure Plan

Hughes Training Inc.
PO Box 6171
Arlington, Texas 76005-6171
(817) 695-2145

1.9 Nature of Business

HTI's primary business used to be the design, manufacture, and testing of military weapon control systems and training simulators. The facility used to perform the complete spectrum of activities required for the overall training and support of advanced military systems.

1.10 Environmental Permits

Not applicable. Hazardous wastes generated during closure activities will be shipped offsite to a TSDF. Demolition will be conducted in accordance with applicable South Coast Air Quality Management District rules.

1.11 Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Donald A Gonzales _____ 4/19/94

Don Gonzales
Vice President and Chief Financial Officer

Date

Section 2

Facility Location

[22 CCR 66270.14(b)(1)]

2.1 Size

The HTI facility is located at 1200 E. San Bernardino Road, West Covina, California (Figure 2-1). The facility occupies an area of approximately 20 acres between the San Bernardino Road, Badillo Street, and Lark Allen Avenue (Figure 2-2). HTI occupies 826,400 square feet of parking, offices, and laboratories. At the height of operation, the facility used to employ approximately 1,200 people.

2.2 Topographic Map

Figure 2-3 shows the topography in the vicinity of the facility. The terrain of the plant site is relatively level. A facility drainage map is presented in Figure 2-4.

The following information is included in Figures 2-2 and/or 2-3:

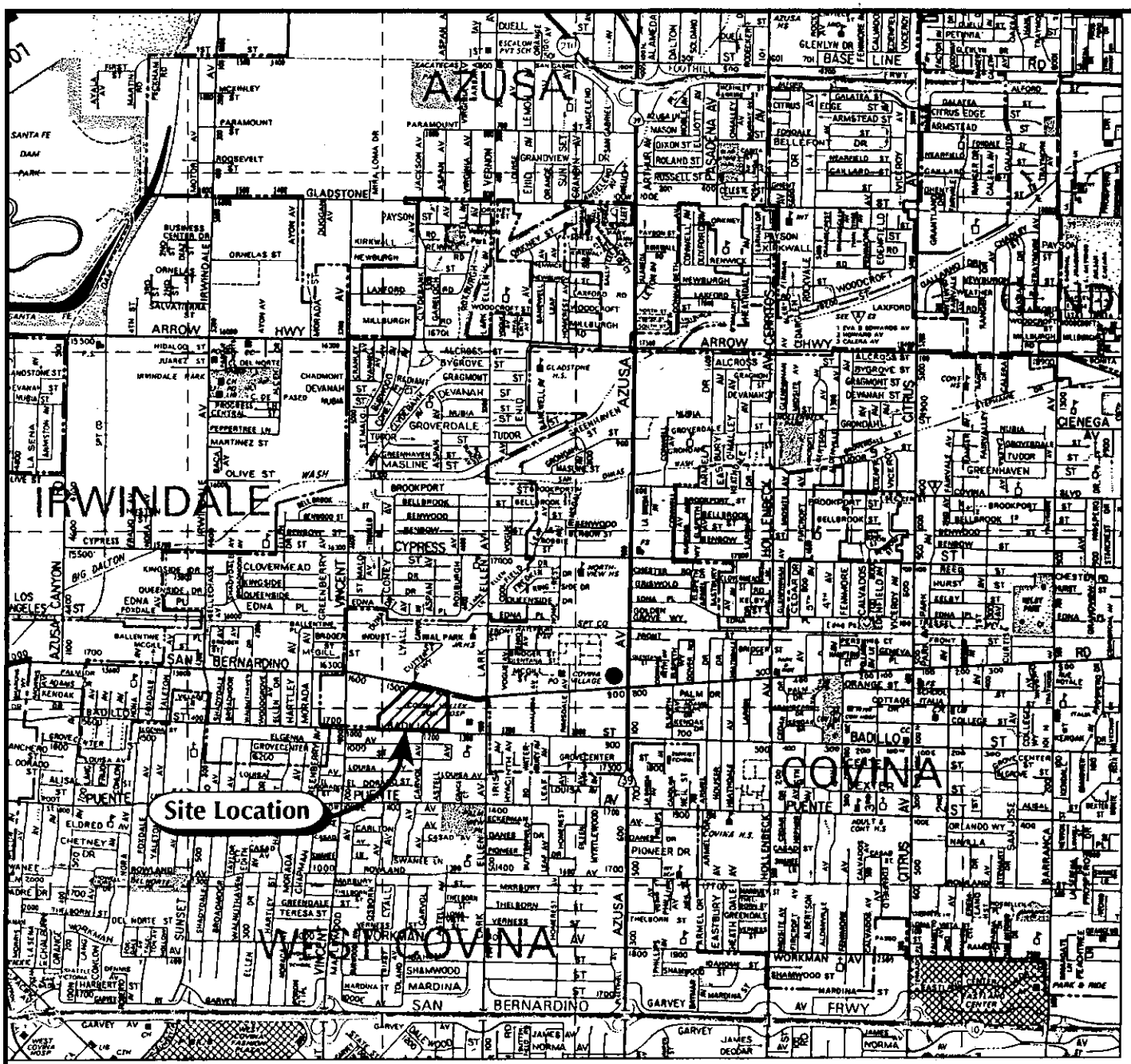
- The facility boundaries
- The location of the HWSA

No surface waters, springs, or drinking water wells are located within 1/4-mile of the facility boundaries.

The land upon which the HTI, West Covina facility is located is zoned for Planned Industrial. The land use adjacent to and in the vicinity of the site is industrial and manufacturing.

2.3 Hydrogeological Conditions

HTI, West Covina is located in the San Gabriel Valley in Los Angeles County, within the San Gabriel Basin. The San Gabriel Mountains form the northern boundary of the basin. The San Gabriel Basin is a broad piedmont plain with an average slope of about 65 feet per mile (CDWR, 1966). The basin contains alluvium and assorted Deposits of Recent and Pleistocene age (younger than 1.8 million years). The alluvial deposits in the basin have been subdivided into four principal groups (CDWR, 1966). These are: recent alluvium, older alluvium, a transition zone between the older and younger alluvium, and the lower Pleistocene San Pedro formation. The San Gabriel Mountains and, to a lesser extent, the flanking low hills are the sources of the basin-fill sediments, which reach a maximum depth of approximately 4,000 feet in the southwestern portion of the basin. The basement rocks and most of the Tertiary rocks, relative to the alluvium, are considered nonwater-bearing units (CDWR, 1966).



Source: Los Angeles, Thomas Guide 1991

Figure 2-1
Site Location
Hughes Training Inc.
West Covina, CA

CH2M HILL

mSCE37305.CL.01/Fig2-1 4/94

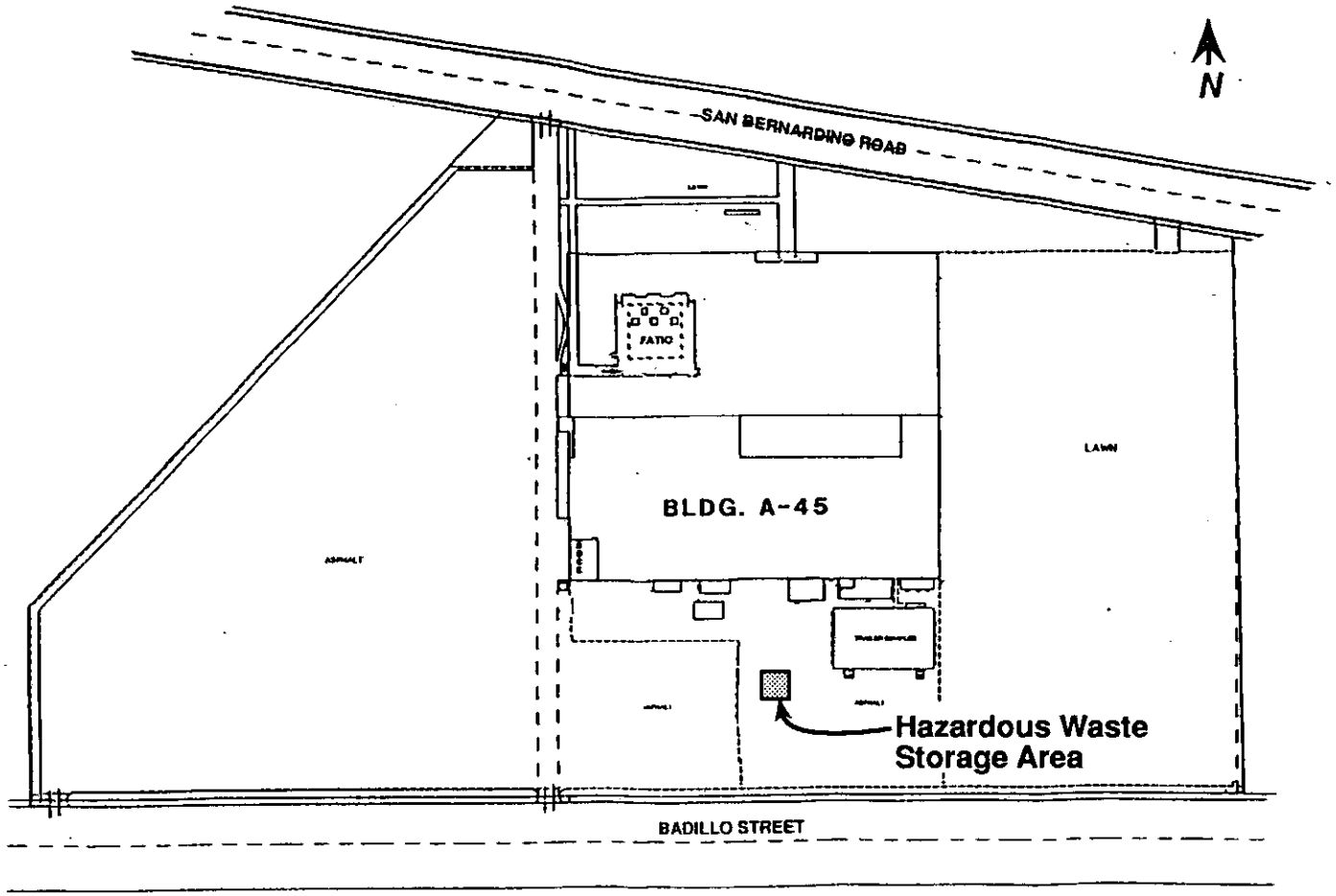
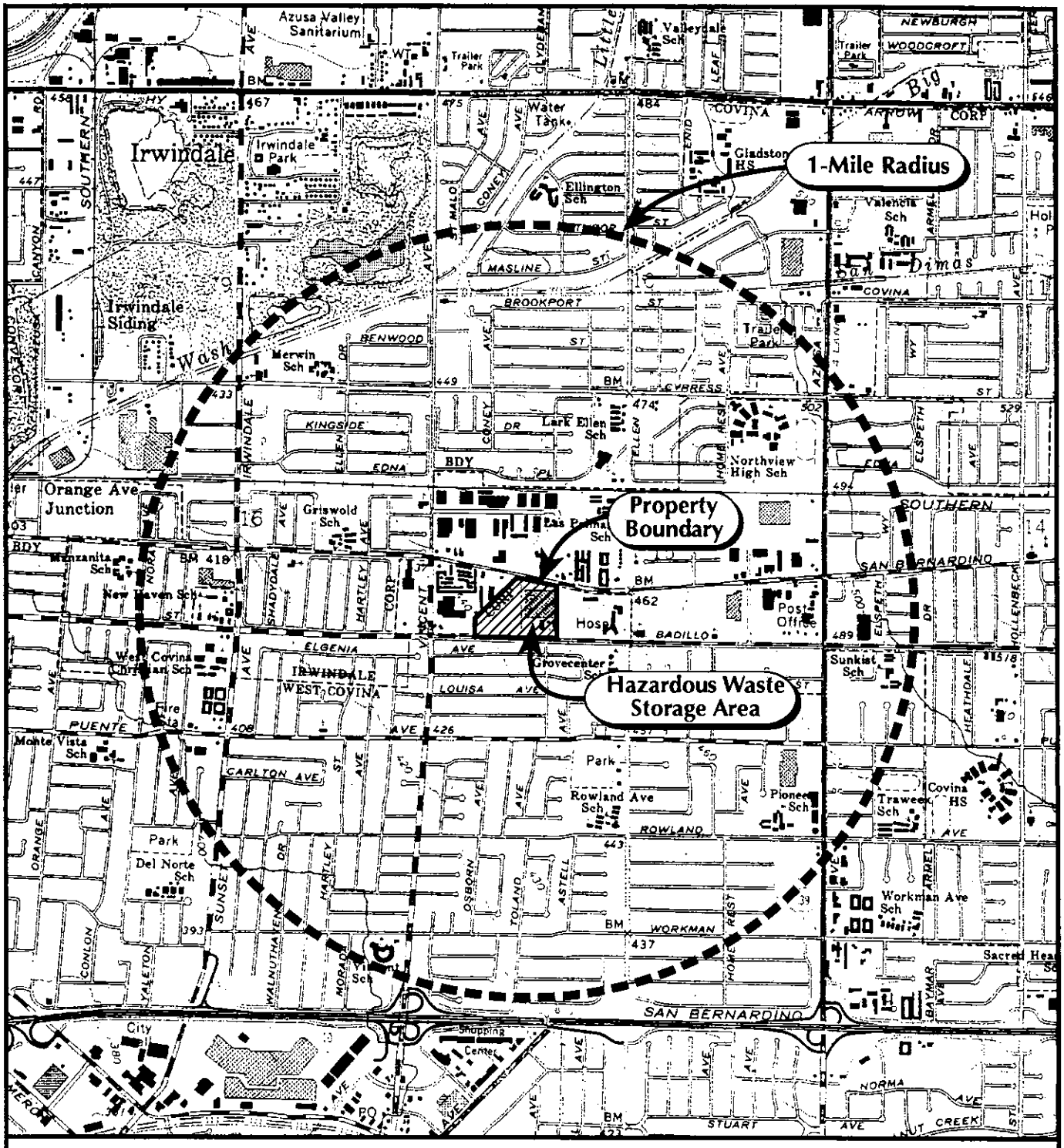


Figure 2-2
Site Plan
Hughes Training Inc
West Covina, CA

CH2M HILL



Source: Quadrangle Map, Baldwin Park, CA 7.5 Minute Series, Photorevised 1981

Figure 2-3
Topographic Map
Hughes Training Inc.
West Covina, CA

CH2M HILL

mSCE37305.CL.01/Fig 2-3 4/94

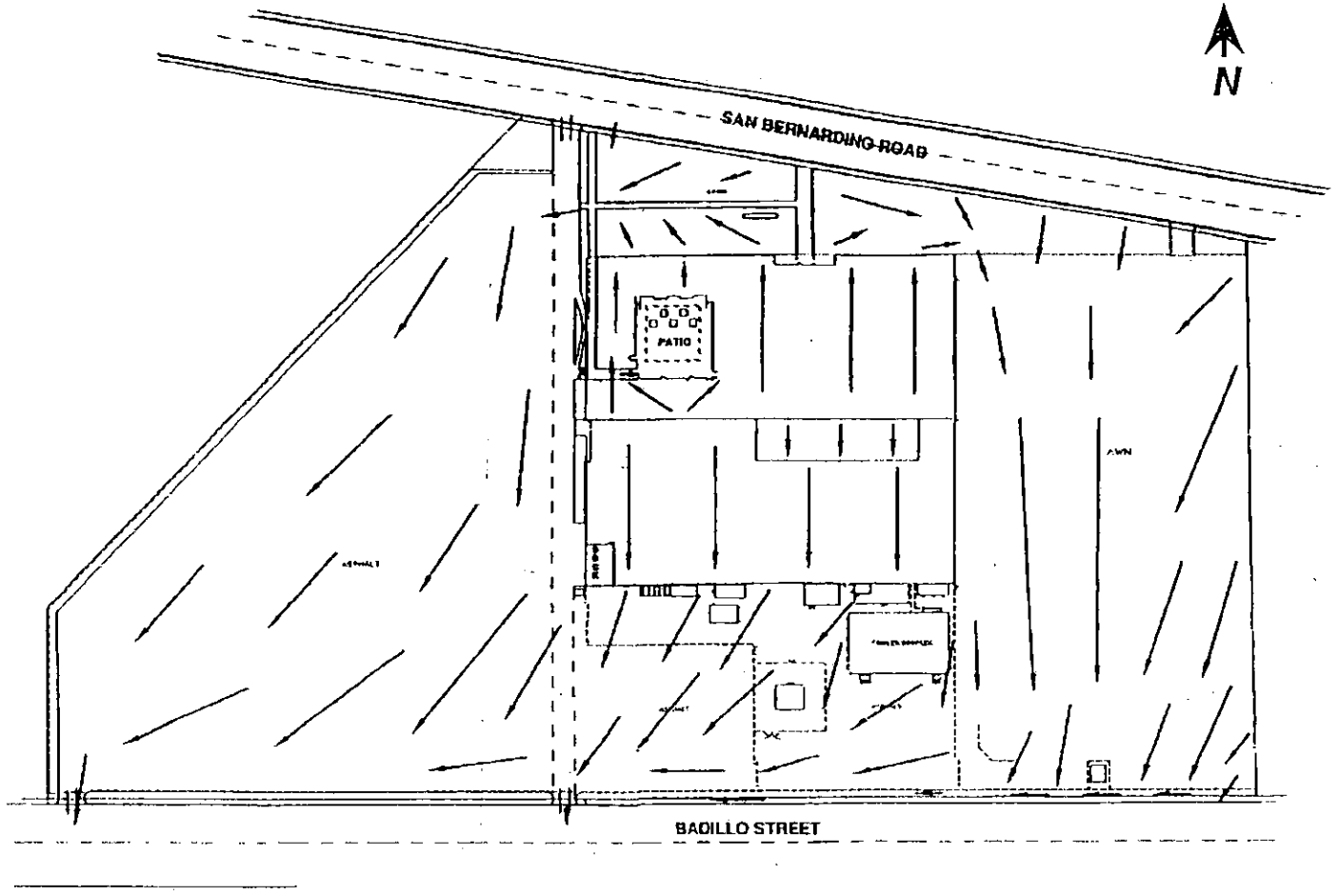


Figure 2-4
Drainage Map
Hughes Training Inc.
West Covina, CA

CH2M HILL

The major structural features in the San Gabriel Basin include topographic highs (San Gabriel Mountains and southern hills) and topographic lows (San Gabriel Basin and subbasins). Major faults in the Basin, as described by the California Department of Water Resources (CDWR) Bulletin No. 104-2 (CDWR, 1966) are the Sierra Madre Fault System, the Raymond Fault, the Lone Hill-Way Mill Fault, and the Workman Hill Fault. The closest faults to the HTI facility are about 3 miles away. These are the Walnut Creek Fault to the east and Duarte Fault to the north.

The HTI facility is located in the northeastern portion of the San Gabriel Basin. The sediments of this area are composed of alluvial materials of recent age, primarily reworked older alluvial debris (Transition Zone deposits) (CDWR, 1966--Plate 9A). Alluvial deposits occur at the ground surface to a depth of approximately 1,200 to 1,400 feet. These deposits exhibit characteristics common to both the older and the recent alluvium. The recent alluvium deposits are predominantly boulders, gravel, and sand and overly older alluvium. The older alluvium makes up the majority of the basin-fill sediments and outcrops, and is comprised of particles that range in size from clay to boulders.

The various alluvial materials in the basin may be considered as a single hydrogeologic unit of hydrogeologic properties that vary principally as a function of grain size. Discrete, multiple aquifer have not been identified in the basin (CDWR, 1966). Generally, hydraulic conductivity of the alluvial aquifer is highest in the gravel of the upstream central portion of the basin. The hydraulic conductivity (and average grain size) decreases away from this area, towards the southern and lateral margins of the basin. The estimated hydraulic conductivity near HTI is about 300 feet per day (EPA, 1992). Because of lithologic variations, the local hydraulic conductivity likely varies significantly from the average, estimated value of 300 feet per day.

Depth to groundwater in wells within a 1-mile radius of the HTI facility is approximately 240 to 265 feet (phone conversation, LADPW). The groundwater level in vicinity of the facility, as estimated from Los Angeles Department of Public Works (LADPW) water level maps, is approximately 210 feet. The general groundwater flow direction is northeast to southwest with a hydraulic gradient of about 0.002 to 0.005 ft/ft. Groundwater flow directions vary locally in response to groundwater pumping and recharge in spreading basins and unlined rivers or streams.

Water Quality in the San Gabriel Basin

Groundwater contaminated with VOCs was first detected in 1979 in the San Gabriel Basin. Since 1980, many production wells throughout the basin have been sampled and analyzed for VOC contamination. Water quality data are available from 635 wells, including 352 production wells, located throughout the basin. In May 1984, four broad areas of contamination within the basin were listed as San Gabriel Areas 1 through 4 on the EPA's National Priorities List (NPL). Based on a number of investigations that have been conducted, six volatile organic compounds most commonly occurring in the

groundwater were determined to be: 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), trichloroethene (TCE), tetrachloroethene (PCE), and carbon tetrachloride (CTC) (EPA, San Gabriel Basin Remedial Investigation Report, 1992).

Figure 2-5 shows the approximate areas of contamination within the San Gabriel Basin. This information is based on water quality analyses from production wells and monitoring wells with varying screen interval, and represents a 2-dimensional picture of contamination that actually varies with depth. The HTI facility location in relation to the areas of contamination is also shown on Figure 2-5. The facility lies outside the areas of contamination.

2.4 Weather and Climatic Conditions

The HTI facility is located in a temperate coastal region in Southern California.

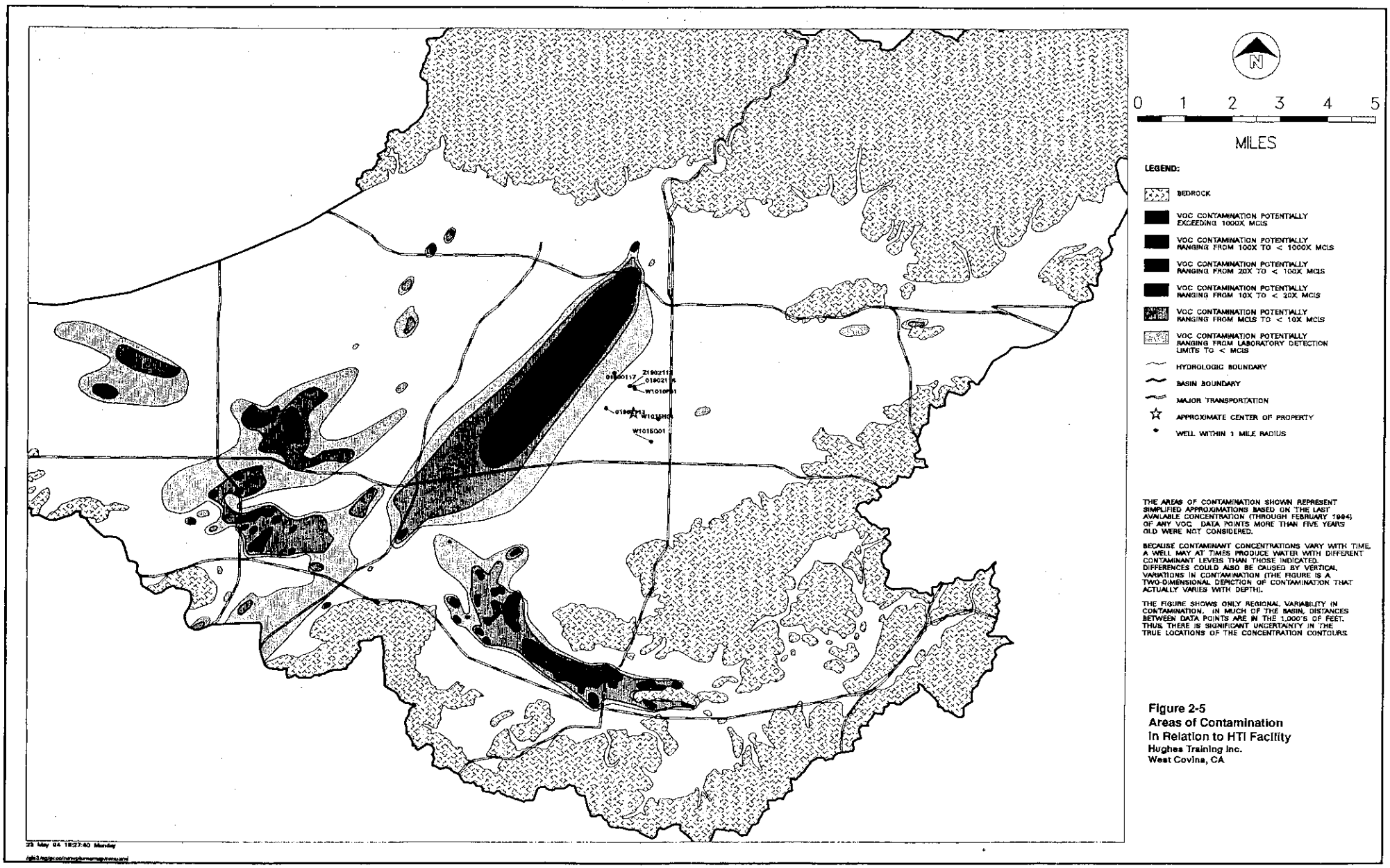


Figure 2-5
Areas of Contamination
In Relation to HTI Facility
Hughes Training Inc.
West Covina, CA

Section 3

Facility Design

[22 CCR 66270.14(b)(1)]

3.1 Hazardous Waste Management Units

The HWSA is the only hazardous waste management unit (HWMU) at HTI. It consists of a reinforced concrete base with berms and sumps, masonry walls separating storage bays, a metal frame and roof, and chain-link fencing. There are six below-grade sumps designed to contain spills.

3.1.1 Size and Dimensions

A layout of the HWSA is shown in Figure 3-1. The HWSA is located within the HTI facility boundary in a secured area approximately 135 feet from the south boundary within the perimeter of the HTI (Figure 2-2). The HWSA dimensions are 28 feet by 33 feet. The total area of the HWSA is approximately 930 square feet. The concrete slab is approximately 6 inches thick.

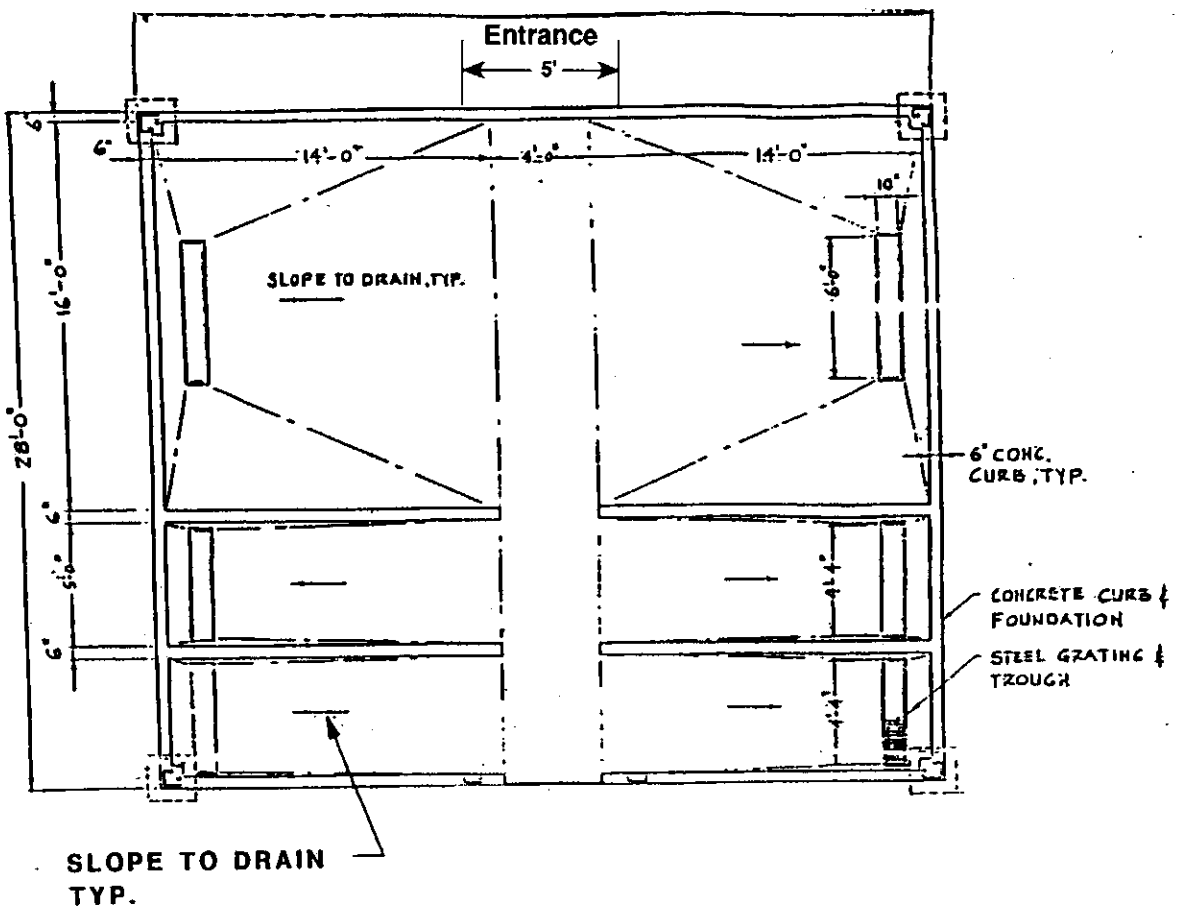
The HWSA is divided into six bays (Figure 3-2) to provide segregated storage of the following:

- One bay, 33 feet by 16 feet, for storage of virgin oils
- One bay, 33 feet by 16 feet, for storage of waste oils, coolants, solvents, paint wastes, resins, and PCB-containing light ballasts
- Two bays, 33 feet by 5 feet each, for storage of flammable waste, resins, and PCB-containing light ballasts
- Two bays, 33 feet by 5 feet each, for storage of corrosives and spent batteries

The first two bays are referred to as Section A, the next two as Section B, and the last two as Section C. The Section B and C bays are segregated by a masonry wall.

3.1.2 Design Capacity

The HWSA-permitted design capacity is provided in Table 3-1. The combined design capacity is 4,180 gallons.



PLAN VIEW

¼" - 1'-0"

Figure 3-1
Hazardous Waste Storage Area
Hughes Training Inc.
West Covina, CA

CH2M HILL

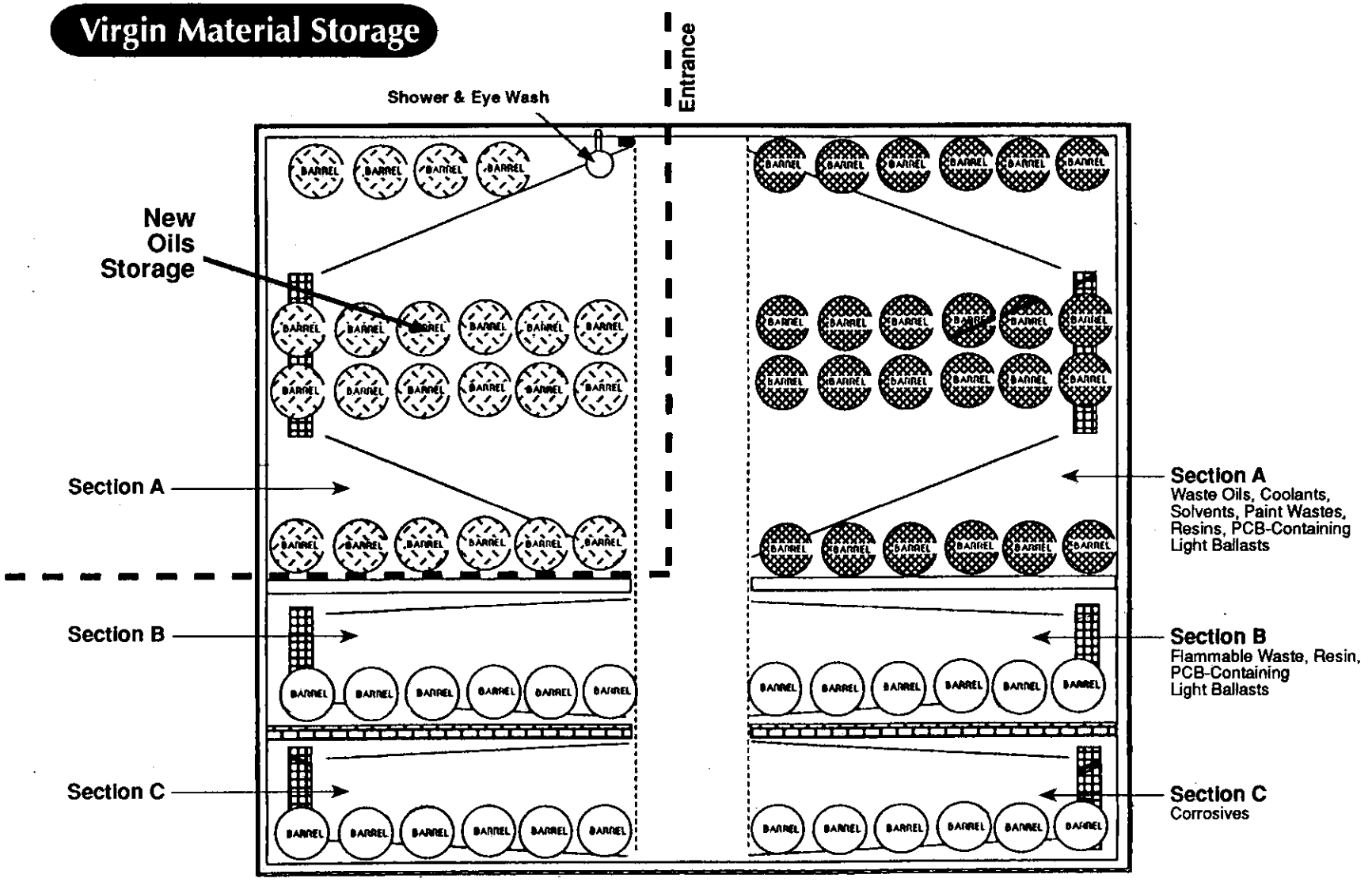


Figure 3-2
Hazardous Waste Storage Area Layout
Hughes Training, Inc.
West Covina, CA

Table 3-1 Design Capacity of the HWSA	
Hazardous Wastes Stored	**Number of 55-Gallon Containers**
Section A	52
Section B	12
Section C	12
Total Number of Containers	**76**

3.1.3 Ancillary Equipment and Structures

There are no ancillary structures or equipment associated with the HWSA.

3.1.4 Types of Containment Systems

The containment system consists of sumps, sloped floors, and a 6-inch berm around the concrete pad. The containment system is designed to direct any leaks to sumps located in each bay. The sumps are about 18 inches deep (Figure 3-1) and have the following design capacities:

- Sumps in Section A—56 gallons per sump
- Sumps in Sections B and C—41 gallons per sump

The concrete floor and sumps are coated. The sump floor under the corrosive bay is lined with an acid-resistant polypropylene material.

3.1.5 Types of Detection and Monitoring Systems

There was no electronic spill detection or monitoring equipment associated with the HWSA. The HWSA was inspected at least weekly to check for spills or leaks.

3.1.6 Planned Expansions or Modifications

No expansions are planned for the HWSA. The HWSA will be demolished as part of closure activities.

3.1.7 Drawings

Design features of the HWSA are shown in Figure 3-1.

3.2 Types and Quantities of Hazardous Waste

No hazardous wastes are currently stored in the HWSA. In the past, wastes generated at the facility were packaged in U.S. Department of Transportation (DOT)-approved drums and carboys, and identified, labeled, and transported from the area of generation to the HWSA. Hazardous wastes were stored until an economical load for shipment to a TSDF was accumulated.

Hazardous wastes generated at the West Covina facility were typical for the manufacture and assembly of electronic components and accessories. The bulk of hazardous wastes stored at the HWSA included halogenated solvents used for degreasing; machine cutting fluids from machining metal parts; organic solvents and paints used for stenciling, painting, and coating electronic components and metal parts; and corrosive materials generated from the alodine and testing laboratories. The types and quantities of hazardous wastes that were stored at the HWSA are summarized in Table 3-2 and included the following:

- Solvents
- Machining oils and hydraulic oils
- Waste paints
- PCB-containing light ballasts
- Spent batteries
- Acids
- Adhesives
- Empty containers

Table 3-2
Hazardous Wastes Stored at the HWSA

Waste Type	Waste Name	Constituents	Annual Quantity	Unit	Physical State	EPA Code(s)	California Code(s)
Acids	Leeder Ardrox 295 G	Fluoboric acid, sulfuric acid, nitric acid	660	Gal	Liquid	F019	181
	Sulfuric acid	Sulfuric acid					
	Phosphoric acid	Phosphoric acid					
	Hydrochloric acid	Hydrochloric acid					
	Zyglo developer	Potassium dichromate, sodium nitrate					
	Leeder Ardrox 171-H	Chromic acid					
	Leeder Ardrox	Chromic acid					
Alkalines	ZP-5B Zyglo wet developer	Trisodium phosphate[1]	110	Gal	Liquid	D002	122
	Leeder Ardrox 178-H	Soda ash					
	Sodium carbonate	Sodium carbonate[1]					
Adhesives	Chemlok 220	Xylene, lead, trichloroethylene, carbon tetrachloride	300	Gal	Solid	—	272, 331
	Chemlok 205	Xylene, methyl ethyl ketone					
	Rubber cement	Methyl ethyl ketone, phenol					
Cutting fluids and oils	Cool tool	Oil	5,160	Gal	Liquid	F002, F005	221, 741
	615-Flux	Petroleum hydrocarbons					
	Zyglo-penetrant	Mineral oil					
	Zyglo emulsifier	Oil (50%)					
	Maintenance oil	Oil (100%)					
	WD-40	Oil (100%)					
	Lubricants	Oil (100%)					
PCBs	Lighting ballasts	PCBs	3	Drum	Solid	—	261

Table 3-2
Hazardous Wastes Stored at the HWSA

Waste Type	Waste Name	Constituents	Annual Quantity	Unit	Physical State	EPA Code(s)	California Code(s)
Acids	Leeder Ardrox 295 G	Fluoboric acid, sulfuric acid, nitric acid	660	Gal	Liquid	F019	181
Solvents and waste paints—mixed flammable waste	1,1,1-Trichloroethane	1,1,1-Trichloroethane	540	Gal	Liquid	F001	741
	Ink remover	1,1,1-Trichloroethane					
	Humiseal thinner	Xylene, toluene, methylene chloride	456	Gal	Solid	F001, F005	214
	Pre-Lete defluxer	1,1,1-Trichloroethane, 1,4-dioxane					
	Humiseal 1A33	Ethyl benzene, xylene, toluene, methyl ethyl ketone					
	Epoxy stripper	Methylene chloride					
	R-process gum	Isopropyl alcohol, formaldehyde					
	Enamel air dry TTE-527	Chrome, lead					
	Enamel air dry	Chrome, lead, chromates					
	PT-426	Toluene, methyl ethyl ketone, ethyl acetate					
	Epoxy coating	Methyl ethyl ketone, glycol ether,[1] toluene, formaldehyde					
	Primer	Poly vinyl chloride[1]					
Heavy metals	Spent batteries	Lead, nickel, cadmium	84	Each	Solid	D002, D005	121
Labpack	Labpack—Miscellaneous aerosol spray cans	Paints, adhesives	6	Drum	Solid	D001, D003	551
Hazardous waste Solid	Empty containers of paint, adhesives, etc. Dirt, debris, cardboard, wood	Paints, adhesives	20	Yards	Solid	—	513, 352

[1]Not listed as a hazardous constituent in 22 CCR 66261.126, Appendix VIII.

Section 4

Hazardous Waste Constituents

[22 CCR 66265.112(b)(3)]

4.1 List of Hazardous Waste Constituents

The list of hazardous wastes stored at the HWSA was provided in Table 3-2. The potential constituents of concern are listed below if they were present in the wastes managed at the HWSA and if the constituents are listed in 22 CCR 66261.26, Appendix VIII:

- Solvents (xylene, trichloroethylene, methyl ethyl ketone, toluene, ethyl acetate, formaldehyde, methylene chloride, 1,1,1-trichloroethane, ethylbenzene, 1,4-dioxane, and isopropyl alcohol)
- Metals (lead, chromium, nickel, and cadmium)
- Oils (mineral oils, petroleum hydrocarbons, and WD-40)
- PCBs
- pH (corrosives: fluoboric acid, sulfuric acid, nitric acid, phosphoric acid, hydrochloric acid, potassium dichromate, sodium nitrate, and chromic acid)

Section 5

Estimate and Management of Maximum Inventory

[22 CCR 66265.112(b)(3) & (4)]

This section includes an estimate of the maximum inventory of hazardous waste permitted to be held at the HWSA over the active life of the facility.

5.1 Maximum Inventory of Hazardous Waste

5.1.1 Waste Capacity

The HWSA was designed to store a maximum inventory of 4,180 gallons of hazardous waste (or seventy-six 55-gallon containers). The storage capacity for Sections A through C is given in Table 3-1. Because no hazardous wastes are currently stored at the HWSA or generated at the West Covina facility, the 4,180 gallons will be excluded from the maximum inventory that needs to be disposed of offsite.

5.1.2 Contaminated Containment System

No significant spills or leaks of hazardous wastes have occurred in the HWSA; therefore, the containment system is not expected to be contaminated. However, for the purposes of estimating maximum inventory, it is assumed that the debris generated from demolition of the HWSA will be disposed of as hazardous waste. The determination of whether the debris is hazardous or nonhazardous will be made during closure by collecting and analyzing a representative sample of the containment system.

5.1.3 Waste Generated During Closure

Wastes that could be generated during closure include demolition debris (masonry walls, steel structure which includes metal walls and roof, and containment system which includes the concrete pad, berm, and sumps); rinsate from decontamination of the HWSA and sampling equipment; and personal protective equipment (PPE).

For purposes of estimating maximum inventory, it is assumed that demolition debris will be managed as hazardous wastes. However, during closure, the metal components of the HWSA will most likely be reclaimed as scrap metal. The containment system will be characterized as hazardous or nonhazardous waste, and managed accordingly. The determination of hazardous versus nonhazardous will be made upon collection and analysis of a representative sample of the containment system.

The underlying soils are not expected to be contaminated; therefore, an estimate of contaminated soil quantity is not provided.

5.1.4 Generator Storage Areas

Only hazardous wastes resulting from closure activities are considered in the closure cost estimate for this plan. Hazardous wastes generated in other parts of the facility are not considered since the facility is not operating.

5.2 Management of Maximum Inventory

5.2.1 Onsite Management

Hazardous wastes generated during closure will be accumulated onsite in the vicinity of the HWSA, until wastes can be shipped offsite. Drums will be stored on a plastic sheeting. The masonry walls and steel structure will be stored in piles, as these wastes are nonhazardous. If the debris resulting from containment system demolition is characterized as a hazardous waste, it will be stored in roll-off bins; otherwise, it will be stored in piles. Waste piles will be covered by plastic, if needed to control fugitive dust emissions.

Per 22 CCR 66265.114, HTI will follow the hazardous waste generator requirements specified in 22 CCR 66262 for wastes generated during closure that are characterized as hazardous and managed onsite. The roll-off bins and drums will be labeled, dated, and stored onsite for less than 90 days. Wastes are expected to be shipped offsite by the time closure activities are completed.

5.2.2 Offsite Management

The maximum inventory of waste associated with the HWSA will be sent offsite for recycling, treatment or disposal. Hazardous wastes will be shipped to authorized recycling, treatment or disposal facilities.

5.2.2.1 Waste Determination

Wastes generated during closure will be characterized by either testing or HTI will use its knowledge of the HWSA operations.

5.2.2.2 Quantity of Waste Shipment

The maximum quantity of waste requiring shipment offsite assumes that the entire maximum inventory will be shipped offsite as hazardous waste. Table 5-1 summarizes the maximum quantity of hazardous waste estimated to be shipped offsite.

Table 5-1 Maximum Quantity of Hazardous Waste Shipped Offsite		
Waste Category	**Quantity**	**Unit**
Permitted hazardous waste capacity	0	Gallon
Containment system residues	0	Gallon
Waste generated during closure:		
Containment system	26	Ton
Masonry walls	2	Ton
Steel structure (walls and roof)	10	Ton
Rinsate	275	Gallon
Used PPE and miscellaneous	55	Gallon
Waste generation areas	0	Gallon

5.2.2.3 Offsite Disposal Method

To estimate maximum closure cost, all wastes generated are assumed to be land disposed upon meeting the land disposal restrictions (LDRs). However, during closure, wastes shipped offsite may be recycled, treated, or landfilled.

5.2.2.4 Distance to Offsite Waste Management Facility

For estimating maximum costs associated with closure activities, the maximum inventory is assumed to be sent to Kettleman Hills in Kettleman City, California. The distance to Kettleman Hills from HTI is approximately 300 miles.

5.2.2.5 Waste Acceptance at Offsite Waste Management Facility

Hazardous wastes will not be sent to an offsite TSDF without meeting the required acceptance criteria. Waste stream profiles will be prepared for hazardous wastes generated during closure activities.

5.2.2.6 Generator and Transporter Requirements

Hazardous waste will be transported by a U.S. Environmental Protection Agency (EPA) licensed hauler to authorized offsite TSDF according to the requirements of 22 CCR 66265.112(a) and 66265.112(b)(3).

5.3 Land Disposal Restrictions

5.3.1 Applicability of Land Disposal Restrictions

The applicability of LDRs will be assessed before offsite transport of hazardous waste. The appropriate documentation will accompany the hazardous waste shipment.

5.3.2 Compliance with LDRs

LDR requirements will be followed for hazardous wastes targeted for land disposal.

5.4 Changes in Maximum Inventory

The inventory of hazardous wastes presented in Table 5-1 is the maximum. Most likely, the quantity of wastes managed as hazardous waste will be less than the maximum inventory estimated.

Section 6a

Decontamination Procedures

[22 CCR 66265.112(b)(4), 66265.197]

6.1a Identification of all Areas Requiring Decontamination

The HWSA--consisting of the containment system, interior masonry block walls, interior metal structure walls (stained areas only), and metal sheets upon which containers were stored--will be decontaminated by steam cleaning or high pressure water wash, and demolished.

6.2a Decontamination Procedures

HWSA decontamination will include:

- To prepare for decontamination, the HWSA floor and sumps will be swept or vacuumed. Sweepings will be collected in a 55-gallon drum and managed as hazardous waste.

- A plastic sheeting, or other moisture barrier, will be placed around the outside perimeter of the HWSA to protect surrounding surfaces.

- The concrete pad will be visually inspected for cracks and discoloration prior to decontamination.

- The metal structure enclosing the HWSA will be removed and any stained areas on the walls will be steam cleaned or washed using high pressure water. The metal sheets upon which containers were stored will also be washed. The washing will take place within the HWSA containment system.

- The floor of the HWSA and the sumps will be steam-cleaned or washed using high pressure water. In areas of high surface contamination, a heavy-duty cleaning solution such as tri-sodium phosphate (TSP) may be used, followed by rinsing with water. At least two successive cleanings will be performed in this manner.

- Rinsate generated during decontamination of the HWSA structure and the containment system will be pumped into drums and managed as hazardous waste. HTI will follow the generator requirements specified in 22 CCR 66262.34 for onsite storage of hazardous waste for less than 90 days. If for any reason, storage of hazardous waste containers exceeds the 90-day limit, HTI will notify DTSC and seek its approval to do so. Drums will

be labeled or marked with the words "Hazardous Waste" along with the accumulation start date.

The plastic sheeting and personal protective equipment will also be containerized and managed as hazardous waste.

- A representative sample of the concrete will be collected and analyzed using the procedures specified in Section 6b.
- The HWSA will be demolished using established industry practices.
- The underlying soils will be sampled, as specified in Section 8.

Section 6b

Sampling Plan for Characterization of Wastes Generated During Closure

6.1b Containment System

For disposal purposes, a representative sample of the concrete containment system will be collected for analysis to determine if it is a hazardous waste. The sample will be collected upon completion of decontamination activities described in Section 6a but prior to demolition. The sample will be collected as follows:

- Twelve concrete cores will be collected: one from each of the six sumps and one from each of the bays. When applicable, cores from the bays will be collected in areas where cracks or stains are noted. Otherwise, cores will be collected from the center of each bay.

- The cores will be pulverized at the laboratory and a composite sample will be collected for analyses.

- The sample will be analyzed for the following:

  - Volatile organic compounds--SW-846-8240
  - Title 22 metals--SW-846-6010/7000 series
  - PCBs--SW-846-8240

  The results will be compared to the total threshold limit concentrations (TTLC) in 22 CCR 66261.24 to determine if these levels have been exceeded and the concrete pad is a hazardous waste. Because the concrete is not likely to exhibit the characteristics of ignitability, corrosivity, and reactivity, the concrete sample will not be analyzed for these.

6.2b Rinsate

The washwater collected during decontamination of the containment system will be containerized in drums, along with the rinsate generated from decontamination of sampling equipment. Collectively, the rinsate will be managed as hazardous waste. Sampling of the rinsate will not be conducted.

Section 7

Confirmation Sampling Plan for Containment Structures

[22 CCR 66265.112(b)(5)]

At this time, confirmation sampling to demonstrate that the HWSA has been adequately decontaminated is not planned. HTI intends to demolish the entire HWSA and ship the resulting debris offsite. The metal structure will be reclaimed as scrap metal. The containment system will be characterized as a hazardous or nonhazardous waste upon analysis of a representative sample (see Section 6b), and will be handled accordingly.

Section 8

Soil Sampling Plan

[22 CCR 66265.112(b)(4)]

This section describes the methods and procedures intended for sampling and analyzing soils underlying the HWSA.

8.1 Objective

The objective of conducting soil sampling is to assess whether hazardous waste management activities at the HWSA have caused a release of hazardous constituents to underlying soils. The results of the analysis will be used to assess the need for further investigation or for carrying out removal or remedial actions.

8.2 Sampling Locations and Depths

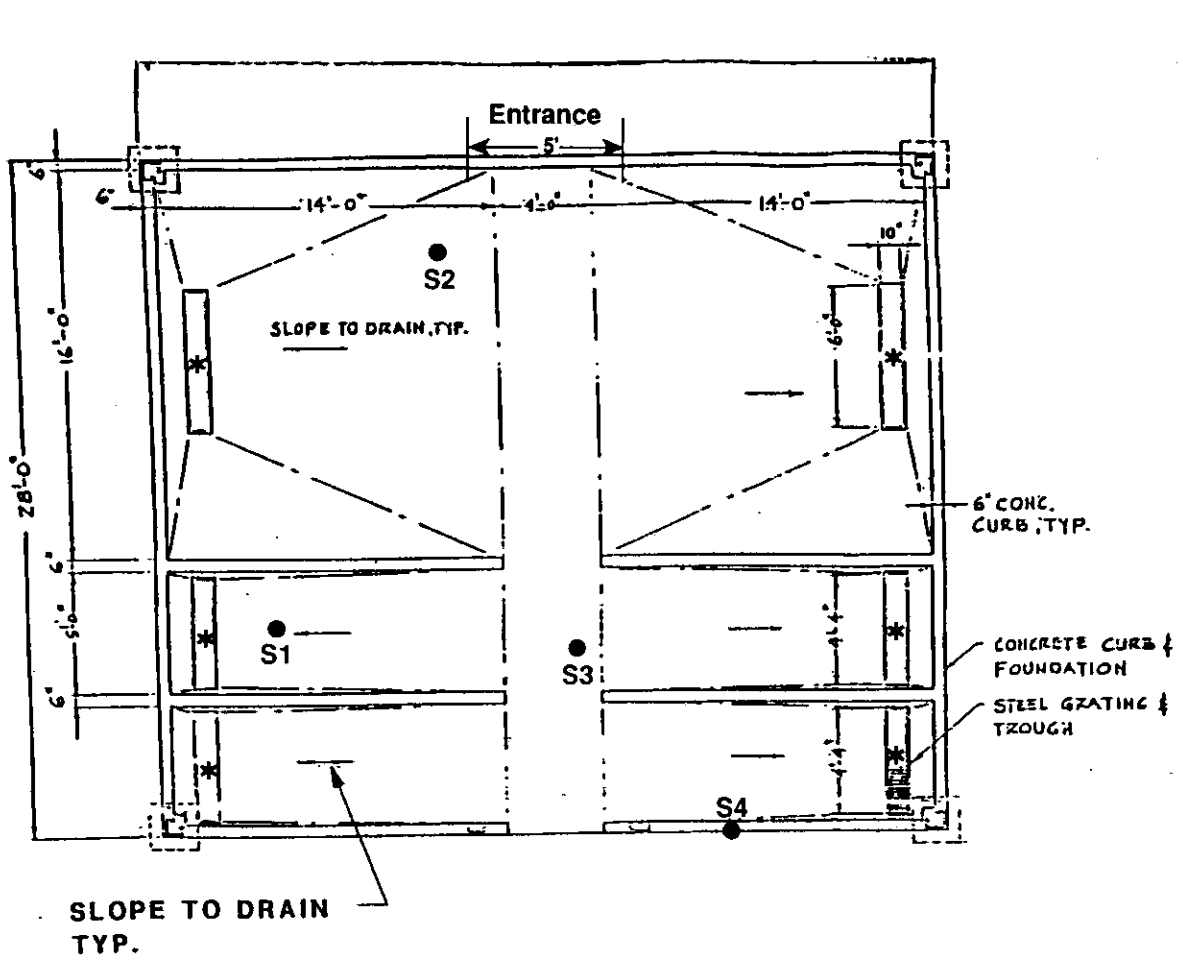
Both biased and random soil sampling will be conducted.

Biased sampling will be conducted at the sumps prior to demolition of the HWSA. Upon completion of concrete coring activities (see Section 6b), two soil samples of the underlying soils will be collected from each sump. The first sample will be collected from below the HWSA containment/soil interface, and the second will be collected from a depth of 3 feet bgs. The soil samples from the six sumps, at each depth, will be composited for a total of two samples that will be analyzed.

The remaining soil samples will be collected from randomly selected locations, after the demolition and removal of the containment system and HWSA structure. The number of random soil samples to be collected was determined using the *Max of N* method described in Appendix A. To be 90 percent confident that the maximum concentration from a sample set exceeds the median concentration of the population being sampled, samples from four locations will be collected.

The sampling locations were determined using the procedure described in Appendix B, entitled Statistical Strategies—HWSA Rectangular or Irregular Shapes. As described in the appendix, the locations of the samples were randomly determined using a procedure intended to eliminate unintended bias. The sampling locations are shown in Figure 8-1.

At each location, soil samples will be collected from two depths. The first sample will be collected from below the HWSA containment/soil interface, and the second will be from a depth of 3 feet bgs.



* Biased soil samples collected from beneath the HWSA sumps. Sample will be composited.

● Radom Soil Sampling Locations

S1: 4.4'E, 9.2'N
S2: 11.0'E, 24.9'N
S3: 17.6'E, 8.8'N
S4: 24.2'E, 1.18'N

Measurements are referenced to the southwest corner.

PLAN VIEW

¼" = 1'-0"

Figure 8-1
Soil Sampling Locations
Hughes Training Inc.
West Covina, CA

CH2M HILL

A minimum of three background soil samples will be collected. Background soil sampling locations, shown in Figure 8-2, are located within the facility boundaries, in areas not known to be affected by operations. Background samples will be collected from 6 inches and 3 feet bgs.

8.3 Types of Soil Samples

Grab samples will be collected, as described in Section 8.2.

8.4 Sample Collection Methods

Samples will be collected with a core sampler, as described in Table 8-1.

8.5 Quality Control Samples

The following quality control (QC) samples will be collected to document the accuracy and representativeness of the confirmation samples.

8.5.1 Field Duplicate Samples

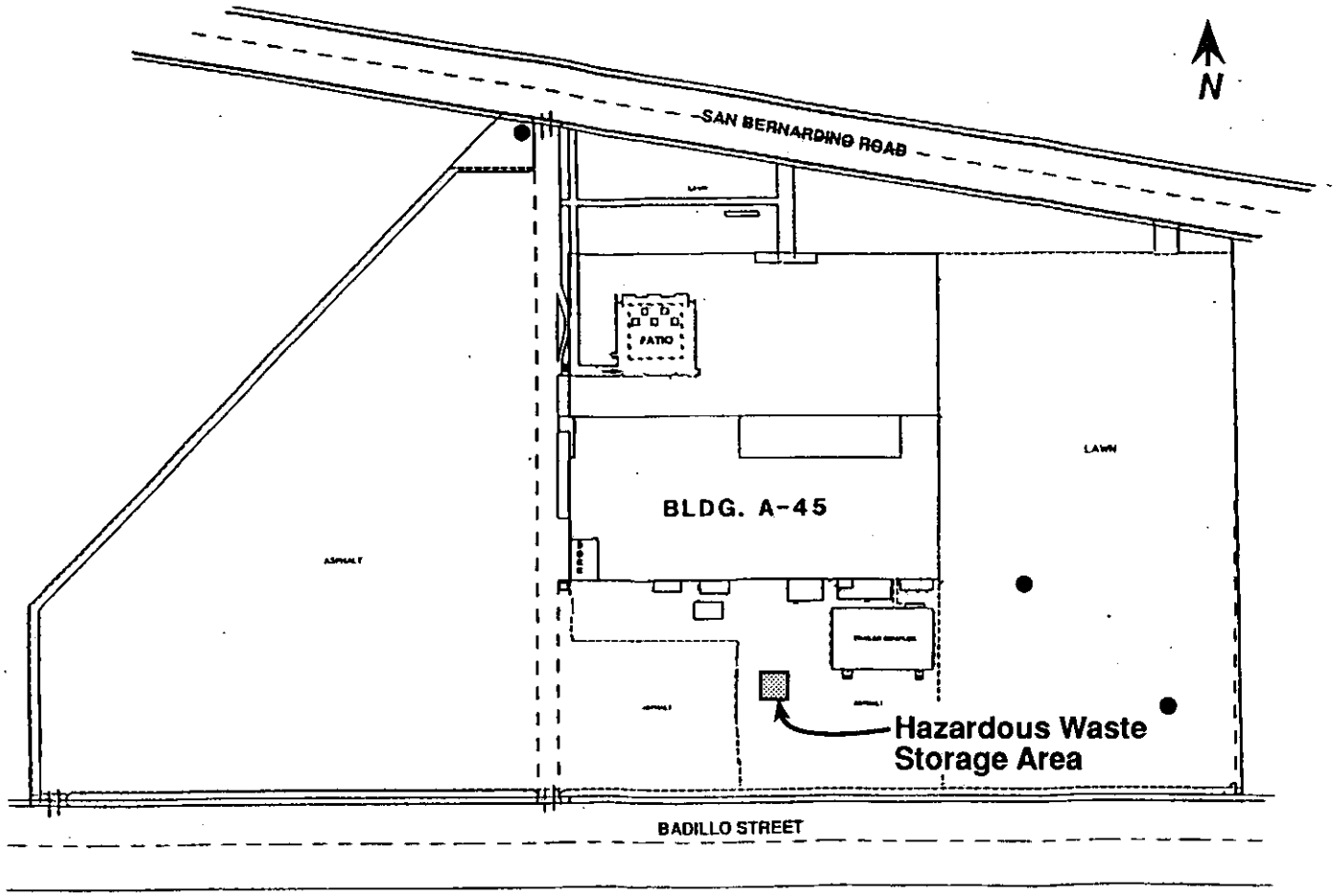
Field duplicate samples will be collected at a frequency of 10 percent per day with a minimum of one sample per day. The field duplicate will be obtained by collecting an additional sample from a location at the same time using the same procedures as those used to collect the original sample.

8.5.2 Equipment Blank Samples

Equipment blank samples are organics-free water aliquots that are placed in contact with nondedicated sampling equipment (e.g., core sampler) after the equipment has been decontaminated. Analytical results from these samples are used to evaluate the integrity of the decontamination process and to identify possible cross-contamination of samples. A minimum of one equipment blank sample per day will be collected where nondedicated sampling equipment is used.

8.5.3 Trip Blank Samples

Trip blank samples are organics-free water aliquots used to evaluate the potential cross-contamination of samples that may occur at any time during the sample handling history. The trip blank usually originates at the contract laboratory and accompanies the delivery of the sample bottles to the site. Trip blank bottles and sample analyses are usually limited to 40-mL volatile organic analytes (VOAs) and volatile organic analyses. A minimum of one trip blank accompanies each cooler containing VOA samples.



● Soil Sampling Locations

Figure 8-2
Approximate Background Soil Sampling Locations
Hughes Training Inc.
West Covina, CA

CH2MHILL

Table 8-1
Sampling Procedures and Sampling Tool Decontamination Procedures

Sample Type	Sampling Procedure	Sampling Tool Decontamination Procedure
Shallow soils	• Go to sample locations identified in Figure 8-1. • For samples collected from below sumps, collect soil sample upon removal of concrete core from the sump and prior to demolition of the pad. For the remaining samples, collect samples upon demolition of the pad. • Collect a sample of the shallow soils from 6 inches below the soil surface or soil/fill interface. Use a core sampler with a 2-inch-diameter and a 6-inch-long (or two, 3-inch-long) stainless steel sample sleeve attached to a slide hammer. • Upon reaching the required depth, retrieve the sampler and remove the stainless steel sleeve. If there is no recovery, repeat the procedure. • Cap the sleeve ends with teflon, add end caps, and secure with electrical tape. • Repeat the procedure and collect one additional 6-inch (or two, 3-inch) sleeve from 3-foot depth, or as close to 3 feet as can be reached using the core sampler.	Decontaminate the sampling equipment between sampling events using the following procedure: • Wash in a tap water and detergent solution (TSP, Alconox, Liquinox, or equivalent) with a surfactant added as a wetting agent. • Spray rinse with deionized water. • Spray rinse with reagent grade methanol. • Final spray rinse with deionized water. • Air dry. • Containerize decontamination rinsate with washwater from decontamination of concrete pad for disposal as hazardous waste.
Background shallow soil samples	• The procedure used for collecting shallow soil samples from beneath the HWSA pad will also be used for collecting background samples.	• Decontaminate the sampling equipment between sampling events using the above procedure. • Containerize decontamination rinsate with washwater from decontamination of concrete pad for disposal as hazardous waste.

8.6 Chain-of-Custody Procedures

The possession of samples must be traceable from the time they are collected to the time they are analyzed by the contract laboratory. Therefore, chain-of-custody procedures described in this section will be followed to ensure field sample integrity and tracking of sample custody.

The chain-of-custody of a sample is defined by the following criteria:

- The sample is in a person's possession or in his/her view after being in his/her possession.

- The sample was in a person's possession and was locked up or transferred to a designated secure area by him/her.

Each time a sample changes hands, both the sender and the receiver will sign and date a chain-of-custody form and specify which items have changed hands. When a sample shipment is sent to the laboratory, the top signature copy is enclosed in plastic with the sample documentation and secured to the inside of the sample shipment containers. The second copy of the chain-of-custody form will be retained in the project files. A chain-of-custody record will be completed for each shipping container.

The following information is included on the chain-of-custody form:

- Sample number
- Signature of sampler
- Date and time of collection
- Place of collection
- Type of sample
- Number and type of container
- Inclusive dates of possession
- Signature of receiver

In addition to the chain-of-custody form, other components of sample tracking include sample labeling and packaging, sample request sheet, sample shipment receipt, field notebook, and laboratory logbook.

8.7 Sample Labeling, Packaging, and Transportation

All samples will be appropriately labeled for identification and tracking. Sample labels will be completed using waterproof-ink pens and affixed to containers at the time of sampling. A sample designation number will be used, containing identifiers that facilitate sample tracking. The sample designation number will contain the following identifiers:

- Hughes Training Incorporated Facility (HTI)

- Sample media
  - S = soils
  - EB = equipment blank
  - TB = trip blank
- Sample location (applicable to soil samples only)
  - S1-4 = soil samples from HWSA
  - BG1-3 = background samples
- Sample depth (applicable to soil samples only)
  - 1 = up to 1 foot
  - 3 = sample from 3 feet
- Sample number (e.g., 001; applicable to samples other than soil)

For example, the shallow soil sample collected from sampling location 3 at the HWSA would be designated as HTI-S3-1. The first rinsate sample would be designated HTI-R-001. Duplicate samples will be assigned a sample number just like the other samples, to prevent the laboratory from identifying it as a duplicate.

Additional information included on the sample label will be the date and time the sample was collected, the analytical parameter(s), and the names of personnel collecting the sample.

8.7.1 Sample Packaging/Preservation

Table 8-2 summarizes the packaging and preservation methods for each type of analysis. The sample packaging and shipping containers will be constructed and packaged to meet the following requirements:

- There will be no release of materials to the environment.
- Inner containers that are breakable must be packaged to prevent breakage and leakage. Packages must be capable of withstanding a 4-foot drop on solid concrete in the position most likely to cause damage. The cushioning and absorbent material must not be reactive with the sample contents.

The packaging procedures shall be in accordance with all U.S. Department of Transportation and commercial carrier regulations. Only waterproof ice chests or coolers will be considered acceptable shipping containers.

Table 8-2
Analysis, Sample Container, Preservation Methods, and Holding Times

Analysis	Method[1]	Sample Type	Container	Preservation	Holding Times
Volatile organic compounds (VOCs)	SW-846-8240	Equipment blank, Trip blank	Two 40-mL teflon-lined septum seal vials	Cool, 4°C	14 days
Title 22 metals	SW-846-6010/7000 series	Equipment blank, Trip blank	500-mL polyethylene	Cool, 4°C	6 months
PCBs	SW-846-8080	Equipment blank	One 2.5-L amber glass bottle	Cool, 4°C	7 days to extraction, 40 days to analysis
VOCs	SW-846-8240	Soil sample	Two 6-inch stainless steel sleeves	Cool, 4°C	14 days
Title 22 metals	SW-846-6010/7000 series	Soil sample	[2]	Cool, 4°C	6 months
PCBs	SW-846-8080	Soil sample	[2]	Cool, 4°C	14 days to extraction, 40 days to analysis
pH	SW-846-9040	Soil sample	[2]	Cool, 4°C	—

Notes:

1. Methods are from *Test Methods for Evaluating Solid Waste, 3rd Edition*, U.S. EPA SW-846 (November 1986). *Methods for Analysis of Water and Wastes*, U.S. EPA, EPA-600/4-79-020 (March 1983).

2. Two sleeves are sufficient for all four analyses.

All samples will be placed in new sample bottles supplied by the contract laboratory. Samples will be placed in a cooler immediately after collection and maintained at approximately 4°C. Samples will be packaged for shipment as follows:

- Seal drain plug in cooler.
- Place vermiculite or styrofoam peanuts in bottom.
- Wrap glass bottles with bubble wrap or styrofoam wrapping; place inside Ziploc-type plastic bags and place in cooler.
- Add ice, double-bagged Ziploc plastic bags.
- Fill with vermiculite, styrofoam peanuts, or bubble wrap.
- Place chain-of-custody form in plastic bag attached to inside of cooler lid.
- Attach two chain-of-custody seals (front and back of container) so that the seals must be broken if the cooler is opened.
- Place name and address of receiving laboratory in a position clearly visible on the outside of the cooler.
- Secure the lid with fiber tape.

The samples will be preserved to ensure that sample integrity is maintained until the samples are analyzed.

8.7.2 Sample Transportation

All shipments for analysis will be transported directly to the laboratory or shipped to the laboratory via overnight courier. In either case, the laboratory will be notified immediately when samples are shipped.

8.8 Documentation

Field Logbooks. The sampling team leader will maintain a field logbook that contains all information pertinent to the field sampling plan and will include as a minimum:

- Date and time of entry
- Project name
- Project number
- Sampling team members
- Weather conditions
- Equipment decontamination

- Health and safety monitoring, if any
- Photograph log (if photographs are taken)
- Sample data
  - Location of site
  - Date of sample collection
  - Time of sample collection
  - Description of samples taken
  - Sample identification numbers
  - Sampling method and equipment
- Personnel decontamination procedures
- Field observations

Members of the field team using the notebook will make all entries in ink and initial and date each page. Unless prohibited by weather conditions, all entries in field and laboratory notebooks will be written with waterproof ink. When an error is made, the individual who made the error will make the correction by crossing a line through the error and entering the correct information. The erroneous information should not be obliterated. All subsequent corrections will be initialed and dated.

Section 9

Analytical Test Methods

[22 CCR 66265.112(b)(5)]

This section presents soil analytical test methods and soil screening levels.

9.1 Constituents of Concern

The hazardous constituents of concern that could potentially be present at the HWSA are identified in Section 4.1.

9.2 EPA-Approved Test Methods

Samples will be analyzed by a state-certified laboratory using procedures outlined in SW-846 and *Methods for Chemical Analysis of Water and Wastes,* EPA-600/4-79-020. The soil samples from 3' depth bgs may be analyzed only if VOCs and PCBs are detected in the 6" sample.

Samples will be analyzed using the following EPA-approved test methods:

- Volatile organics - SW-846-8240 (solvents)
- Title 22 metals - SW-846-6010/7000 series (metals)
- PCBs - SW-846-8080 (PCBs)
- pH - SW-846-9045 (acids and alkalines)

The above analyses have been selected based on the hazardous constituents list provided in Section 4.1. Background soil samples will be analyzed for metals only, as these are naturally occurring.

Even though oils were stored at the HWSA, soil samples will not be analyzed for total petroleum hydrocarbons or oil and grease. The presence of oils will be evident by stained soils.

Samples will also not be analyzed for isopropyl alcohol. Soils are not likely to be ignitable, which is a hazardous characteristic of isopropyl alcohol.

For the constituents of concern, concentrations detected in soil samples will be screened against the following criteria:

- Metals: background. Background concentrations will be established at three standard deviations above the mean for each constituent of concern.

- VOCs: health-based criteria or nondetect, whichever is greater. The health-based criteria are presented in Table 9-1. Standard practical quantitation limits (PQLs) will be used as detection limits.

- PCBs: health-based criteria or nondetect, whichever is greater. The health-based criteria are presented in Table 9-1. Standard PQLs will be used as detection limits.

- pH: less than 2 or greater than 12.5.

Health- or risk-based concentrations (RBCs) presented in Table 9-1 were calculated using California cancer potency factors (DTSC, 1992), for a target cancer risk of 1×10^{-6} or a hazard quotient of unity (1) for noncarcinogens. Residential land use was assumed. RBCs were based on exposure via soil ingestion, inhalation (particulate and vapor), and dermal contact. Soil saturation levels, or the concentrations at which free product may exist, were also calculated for each of the chemicals. RBCs and Saturation concentrations were calculated using the methodology presented in the Preliminary Endangerment Assessment Guidance Manual (DTSC, 1994). When the calculated RBC value was greater than the calculated soil saturation concentration, the soil saturation concentration was used. As indicated in Table 9-1, this occurred for five chemicals.

If constituent concentrations in soil samples exceed the screening levels, HTI will amend the Closure Plan for removal of contaminated soils and to establish cleanup standards (see Section 11).

9.3 Other Analytical Test Methods

Analytical methods not approved by the EPA are not expected to be used on the project.

Table 9-1
Screening Levels for Constituents of Concern

Constituent	Risk Based Concentrations[a] (mg/kg)
1,1,1-Trichloroethane	500 (sat)
1,4-Dioxane	10
Ethyl acetate	14,000 (sat)
Ethyl benzene	100 (sat)
Formaldehyde	0.002
Methylene chloride	10
Methyl ethyl ketone	4,500 (sat)
Trichloroethylene	8.5
Toluene	300 (sat)
Xylene (total)	100 (sat)
PCBs	0.03

Notes:

[a] = California cancer potency factors obtained from "California Cancer Potency Factors" memorandum to Cal EPA Department's Boards and Offices from the Standards and Criteria Work Group. Office of Environmental Health Hazard Assessment Group, Cal EPA. June 18, 1992.

sat = Soil saturation concentration (used instead of the risk based concentration)

Section 10

Groundwater Sampling and Monitoring Plan

[22 CCR 66265.112(b)(5)]

No groundwater sampling and monitoring program is planned as part of this closure. An investigation in 1989 indicated no contamination of soils and groundwater underneath the facility. Because the operations at the West Covina facility had not changed since 1989, contamination of groundwater beneath the site is not likely.

Section 11

Closure Performance Standards (Cleanup Levels)

[22 CCR 66265.111, 66265.112(b)(5)]

The HWSA will be clean closed. Final closure of the HWSA, as described in this closure plan, are designed to do the following:

- Minimize the need for further maintenance.
- Control, minimize or eliminate, to the extent necessary to protect human health and the environment, the postclosure escape of hazardous waste, hazardous constituents, leachate, contaminated rainfall or runoff, or hazardous waste decomposition products to the ground, surface waters, or atmosphere.
- Comply with applicable closure requirements of 40 CFR 264 Subpart G and CCR 66264 Article 7.

In general, these goals are accomplished by demolition and removal of the HWSA.

Postclosure monitoring at the HWSA is not anticipated since no regulated wastes or waste residues are expected to remain at the site after closure.

After closure of the HWSA has been completed, the HTI facility will have no remaining HWMUs. Upon approval of closure by DTSC, HTI will no longer be classified as a TSDF.

11.1 Soil Cleanup Standards

Soil contamination is not expected; therefore, cleanup standards are not specified in this closure plan. If contamination is identified following soil sampling and analysis, HTI will amend the Closure Plan to identify the horizontal and vertical extent of soil contamination. In addition, a proposal establishing cleanup levels and removal of contaminated soils will be submitted to DTSC.

11.2 Containment Structures

The HWSA containment system will be characterized as a hazardous or nonhazardous waste and disposed of accordingly. Characterization will be based on analysis of a representative sample (see Section 6b).

Section 12

Soil Removal/Cleanup Procedures

[22 CCR 66265.112(b)(5), 66265.114]

It is not anticipated that the soils underlying the HWSA will be contaminated; therefore, soil removal/cleanup are not addressed in this closure plan. If soil contamination is identified, HTI will amend the Closure Plan to identify the horizontal and vertical extent of contamination. Also, a proposal establishing procedures for removal and cleanup of contaminated soils will be submitted to DTSC. The proposal will address procedures for excavation and removal, offsite disposal, and onsite cleanup.

Section 13

Closure Cost Estimate

[22 CCR 66265.142]

13.1 Itemized Activities

A closure cost estimate is provided in Table 13-1 for the following items:

- Decontamination of HWSA
- Demolition and disposal of debris (concrete pad, berms, and sumps) and the metal structure
- Disposal of other wastes such as rinsate and personal protective equipment
- Soil and containment system sampling and analysis

This estimate reflects the maximum expected costs for the various closure activities. The total closure cost is estimated to be about $52,000. The estimate is based on using an independent contractor to perform the closure activities.

13.2 Twenty Percent Contingency Factor

A 20 percent contingency factor was applied to the cost estimate, as shown in Table 13-1.

13.3 Update of Cost Estimate

13.3.1 Inflation Update

The closure cost estimate will be updated annually to adjust for inflation. The cost will be adjusted using the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its *Survey of Current Business*. The inflation factor is determined by dividing the latest published annual deflator by the deflator for the previous year.

13.3.2 Changes in Closure Plan

The closure cost estimate will be revised if the underlying soils are found to be contaminated, and need to be remediated. The cost estimate will be revised no later than 30 days after the DTSC has approved the request to modify the closure plan.

Table 13-1
Itemized Closure Cost Estimate for the HWSA

Item	Quantity	Unit	Unit Cost ($)	Total ($)
a. Removal, transportation, and disposal of maximum inventory				
Demolition				
• Transport hazardous waste	300	Mile	4.61[1]	1,382
• Dispose of steel structure	10	Ton	120[2]	1,200
• Dispose of block wall	2	Ton	120[2]	240
• Dispose of concrete pad	26	Ton	120[2]	3,120
• California disposal tax	38	Ton	42.42[2]	1,612
• Local disposal tax	—	—	10% of fee[2]	456
Other				
• Rinsate	5	Drum	380[2]	1,900
• Used PPE and miscellaneous	1	Drum	380[2]	380
b. Decontamination activities[3]				
Cleaning				
• Steam cleaning or high pressure wash	3	Day	2,300[2]	6,900
Demolition				
• Demolish/load steel structure	12,000	Cubic feet	0.31[1]	3,720
• Demolish/load block wall	28	Linear feet	5.80[1]	162
• Demolish/load concrete pad	832	Square feet	3.10[2]	2,579
	40		80	3,200
c. Sampling (soil and concrete)				
• Labor	24	Hour	80	1,920
• Concrete coring	12	Core	75[2]	900
• Expenses	1	Lump sum	500	500
d. Analysis[2]				
• Volatiles - solid	12	Each	195	2,340
• Volatiles - liquid	2	Each	195	390
• Metals - solid	15	Each	195	2,925
• Metals - liquid	1	Each	195	195
• PCBs - solid	12	Each	140	1,680
• PCBs - liquid	1	Each	140	140
• pH - solid	14	Each	10	140
d. Closure certification report	1	One time	5,000	5,000
Subtotal				42,981
20% Contingency Factor				8,596
Total Estimated Cost (rounded to next 1,000)				52,000

Notes:

1. Wastes are assumed to be transported from the West Covina facility to Kettleman Hills in Kettleman City, California. Unit prices are from Means, 1993. Factors applied are 1.059 for location and 3.5 percent for inflation to reflect 1994 costs.
2. Unit prices are based on information provided by third-party contractors. Concrete density is assumed to be 125 lb/cubic feet. Analyses assumed: 10 soil samples from beneath HWSA, 3 background soil samples (metals only), 1 concrete sample, 1 duplicate soil sample, 1 equipment blank, and 1 trip blank (VOAs only). Only soil samples are to be analyzed for pH.
3. Costs for compaction and repaving are not included.

Section 14

Financial Responsibility

[22 CCR 66265.143, 66265.147]

14.1 Mechanism for Financial Assurance

HTI meets the financial assurance requirements in CCR 66265.143 using the mechanism of corporate guarantee. The attachment included in Appendix C represents HTI's filing of financial statements and corporate guarantee.

14.2 Update of Financial Assurance

The financial assurance mechanism will be updated annually to adjust for inflation. It will also be updated whenever there is an increase in the closure cost estimate.

14.3 Mechanism for Liability Coverage

Liability coverage documentation is included in Appendix C.

Section 15

Closure Implementation Schedule

[22 CCR 66265.112(b)(6) & (7), 66265.113]

15.1 Expected Year of Final Closure

Final closure of the HWSA is expected to be completed by July 29, 1994. HTI has already shut down its operations at this facility. The property is currently in Escrow and the sale of the property is pending DTSC's approval of the closure, and release of the facility from TSDF status.

15.2 Schedule

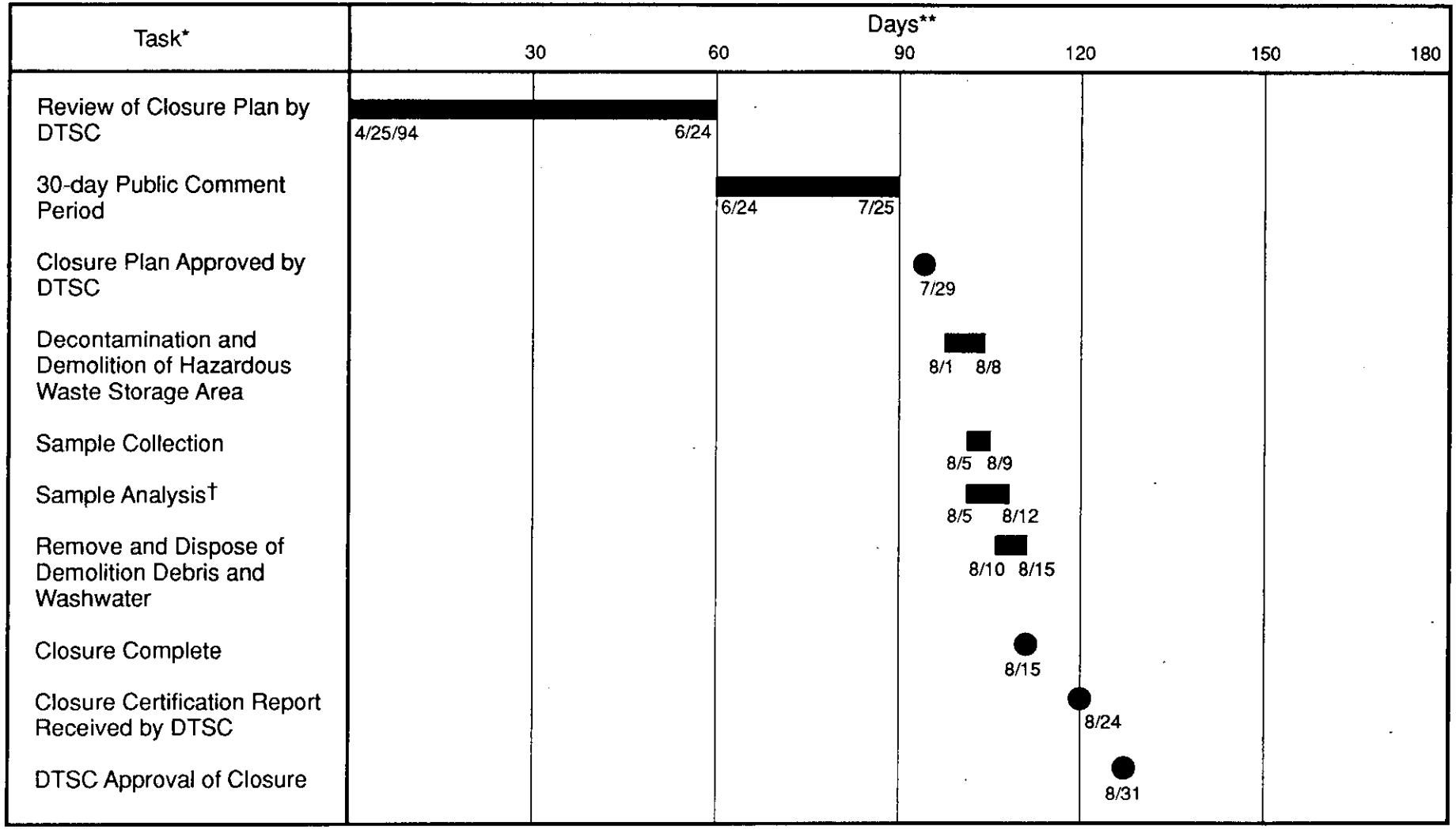
A time schedule for final closure is provided in Figure 15-1.

15.3 Procedures to Request Extension

An extension of the closure schedule is not requested at this time. If closure activities are expected to extend past 180 days, a request for extension will be submitted to DTSC.

15.4 Use of Closed Area Prior to Approval

Not applicable. The HWSA will be demolished.



* Notification of intent to close was submitted to DTSC on October 30, 1992.

** The schedule for activities to be conducted by Hughes has been compressed compared to regulatory time limits.

† Two-day turnaround assumed.

Figure 15-1
Proposed Closure Implementation Schedule

CH2MHILL

Section 16

Closure Certification Report Requirements

[22 CCR 66265.115]

16.1 Maintenance of Closure Documents

Until DTSC's approval of closure is received, the following documents will be maintained at HTI's Safety, Health, and Environmental Affairs (SHEA) office in Texas:

- Approved closure plan
- Copies of independent qualified professional engineer's field observation report
- Laboratory results of samples analyzed
- QA/QC demonstration
- Manifests showing disposition of waste inventory, if any
- Photographs of closure activities, if any
- Closure certification report

16.2 Closure Certification

Within 60 days of completion of final closure, HTI will submit to the DTSC, by registered mail, a closure certification report documenting that the HWSA has been closed in accordance with the specifications in the approved closure plan. The certification will be signed by HTI and an independent qualified professional engineer registered in California. The report will contain the following:

- Certification by an independent registered professional engineer
- Supervisory personnel description
- Engineer's field observation report
- Summary of closure activities
- Sampling data and analysis
- Discussion of analytical results
- Manifests showing disposition of waste inventory, if any
- Modifications to approved closure plan, if applicable
- Photographs of closure/sampling activities, if any

Section 17

Health and Safety Plan

[22 CCR 66265.112(b)(5)]

HTI health and safety policies and procedures will be adhered to during closure of the HWSA.

Contractors responsible for various closure activities will be required to have a site-specific health and safety program addressing the onsite procedures to be followed. A site-specific health and safety plan is included in Appendix D.

Section 18

Site Security

[22 CCR 66265.112(b)(5)]

18.1 Security Measures

When HTI's West Covina facility was operating, security measures employed were those of major Department of Defense contractors. This included a guard at the Main Security Post who was on duty 24 hours a day, 7 days a week. Scheduled guard patrols were also conducted during off hours and weekends.

Currently, the entire facility is locked up and access to the facility is by appointment only. In addition, to controlled access to the facility, a 25-foot perimeter around the HWSA is surrounded by a chain-link fence with lockable gates. The only entrance to the storage area has a separate chain-link lockable gate.

18.2 Access Control

Access to the West Covina facility is by appointment only, and is through the Main Security Post. Access to the HWSA is also controlled as discussed in Section 18.1. The HWSA will be cordoned off until closure activities are completed.

18.3 Alternate Access Control

There are no alternate access controls to those described above.

Appendix A
Max of N

Appendix A

MAX of N

A.1 Sample Allocation

The *Max of N* method to determine sample size is based on randomized collection of samples within defined areas of relatively homogeneous contamination. The number of samples within any homogeneous area is independent of the size of the area and has been based upon a nonparametric (distribution-free) statistical method that calculates the size of a sample (N) required to estimate a prespecified tolerance interval of the sampled population with a prespecified level of confidence (Practical Nonparametric Statistics, W.J. Conover. John Wiley, 1980).

Nonparametric specification of sample size makes no assumptions about the underlying distribution of the chemical or compound. It does require specification of both a desired level of confidence and a desired upper bound on the quantile (of the sampled population) being estimated. The level of confidence reflects the probability that the maximum concentration from a sample of a given size will not exceed the prespecified upper quantile and is preselected.

The "Q"-th quantile of the population being sampled is defined as the value (concentration) at which the probability that members of the population will exceed that value is "Q," where Q ranges between 0 and 1. For example, half of the population is greater and half of the distribution is less than the .5 quantile, the population median value. The upper and lower quantiles of the distribution, the .75 and .25 quantiles, respectively, are the concentration levels at which 25 percent and 75 percent of the population are greater. A prespecified confidence level of 5 percent and prespecified .5 quantile means that the maximum concentration from the sample of size "N" will not be less than the median (due to chance alone) more than 5 times out of 100. "N" increases as either the preselected quantile (upper tolerance limit) or preselected level of confidence increases.

The effect of raising the quantile of interest dominates the increase in required sample size. For example, to be 90 percent certain that the maximum concentration from a sample exceeds the median of the population being sampled requires a sample size of 4; to be 95 percent certain requires a sample size of 5—a comparatively negligible increase in sample size. To be 90 percent confident that the maximum sample concentration is greater than the .95 quantile requires a sample size of 45; to be 95 percent confident requires an N of 59.

Table A-1 tabulates sample sizes corresponding to a range of prespecified coverages and a range of prespecified confidence levels.

The HWSA is assumed to be a homogeneous unit (with an equal chance of encountering a past spill location). Therefore, to be 90 percent confident that the maximum concentration from a sample exceeds the median, a sample size of 4 has been selected (see Table A-1).

A.2 Sample Locations

The only strong assumption implicit to the *Max of N* methodology is that sampling is randomized. Randomization (which is not synonymous with *arbitrary*) means that any location carries an equal probability of being sampled, and that sampled locations are randomly assigned. It is an insurance policy against potential bias in results due to unknown processes. While an essential component to a sampling strategy, randomization is not necessarily the most efficient way to assign sample locations. A useful constraint to randomization in environmental situations is to systematically sample from a randomized start point. This means that all points in the area to be characterized carry equal probability of being sampled, but that the entire area is uniformly sampled. Examples include gridding an area with randomized start-point and grid orientation. Application of the strategy in an area that is linear would consist of equispaced samples collected along a transect, with the first sample collected at a randomly selected start point.

A discussion on selection of sampling locations is presented in Appendix B.

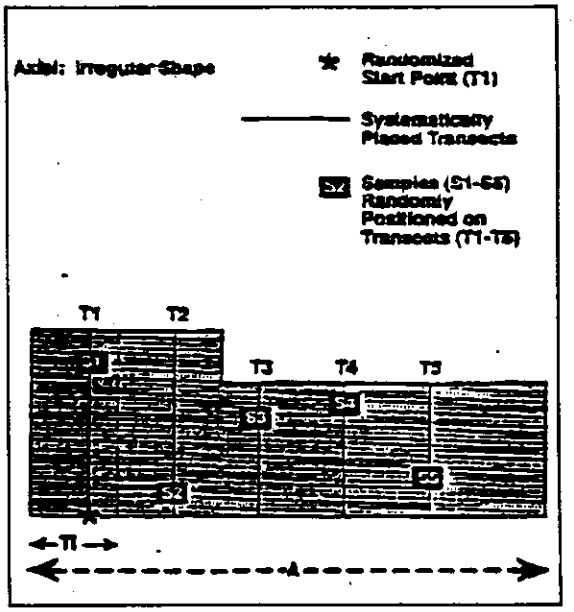
Appendix B

Statistical Strategies—HWSA (Rectangular or Irregular Shapes)

Appendix B
Statistical Strategies—HWSA
(Rectangular or Irregular Shapes)

Systematic location of sampling points results in coverage of the entire area that is being sampled. Additionally, it means that each sample represents an approximately uniform area or volume of material. Randomization, a pivotal component to the actual location of the sample, functions as an *insurance policy* against unintended bias resulting from unknown and unmeasured factors that could influence the physical/chemical parameters being measured. Systematic location of samples in either a rectangular or irregularly shaped sampling area, such as the HWSA, consists of the following steps:

- Measure length of longest axis through area [A] from axis start to axis end
- Calculate transect interval [TI] by dividing A by N
- Generate six random digits [RD1 - RD5], ranging from 0 to 1
- Calculate randomized start point (RSP) by multiplying T1 by RD1
- Position the first N transect [T1] perpendicular to the axis at a distance RSP from axis start
- Measure the length of T1
- Calculate the distance T1=RD2 and locate sample 1 [S1] at distance T1=RD2 from top of transect T1
- Position N-1 additional transects perpendicular to the axis at successive points separated by distance T1
- Measure the length of transect
- Calculate the distance (length RD) and locate sample the same distance from the top of the schematic



- Repeat the preceding steps to locate samples S3 - S4 on transects T3 through T4 until randomly located samples have been positioned at each systematically positioned transect

In Section 8 of this report, Figure 8-1 indicates the four random sampling points, located at the following distances from the reference point in the southwest corner of the building:

S1: 4.39 feet east and 9.18 feet north
S2: 11.0 feet east and 24.86 feet north
S3: 17.6 feet east and 8.76 feet north
S4: 24.2 feet east and 1.18 feet north

The sample locations were randomly located on systematic transects from a randomly located start point, which resulted in the following specific values and sample coordinates:

A = 33 feet
TI = 6.6 feet
RD1 = 0.665
T1 = 4.39 feet EAST of Reference Point in SW corner
T2 = 11.0 feet EAST of Reference Point in SW corner
T3 = 17.6 feet EAST of Reference Point in SW corner
T4 = 24.2 feet EAST of Reference Point in SW corner

Length (T_{all}) = 28 feet
RD2 = 0.328
L*RD2 = 9.18 feet NORTH from East Wall
RD3 = 0.888
L*RD3 = 24.86 feet NORTH from East Wall
RD4 = 0.313
L*RD4 = 8.76 feet NORTH from East Wall
RD5 = 0.042
L*RD5 = 1.18 feet NORTH from East Wall

Appendix C

Financial Assurance Statements and Corporate Guarantee

May 19, 1993

HUGHES

Subsidiary of GM Hughes Electronics

Department of Toxic Substances Control
Financial Responsibility Unit
1011 N. Grandview
Glendale, CA 91201
attn. Cecilia Rosana

Certified Mail: Financial Assurance
Letter of Credit

Dear Cecilia:

This letter shall serve as notification to the Department pursuant to 22CCR 66264.143 (f)(6) and 265.143 (f)(6) that Hughes Aircraft Company (Hughes) no longer meets the requirements of the Financial test and Corporate Guarantee for closure in 22CCR 66264.143 (f)(1). Knowledge of the failure to meet the requirements was obtained at the end of Hughes' fiscal year with the release of the General Motors Corporation Annual Report in mid March 1993. This notification is being submitted to you within the required 90 day period.

Hughes Aircraft Company is satisfying the Financial Assurance for Closure requirements with an originally signed Letter of Credit (No. S-866323, JP Morgan & Co., Effective May 1, 1993) dated May 12, 1993 for closure pursuant to § 66264.143 (d). An originally signed duplicate of the Standby Trust Fund, effective May 1, 1993 with Tustee: Citibank, N.A., Trust Account No. 793943. is provided pursuant to § 66264.143 (e). The Standby Trust Fund is established for both the closure financial assurance and the Liability coverage for sudden and accidental releases pursuant to 66264.147 (a)(7). A Letter of Credit is also established for the Liability coverage (No. S-866322, JP Morgan & Co. Effective May 1, 1993) dated May 12, 1993. One trust fund is established to cover the two Letters of Credit for closure and liability insurance. These alternative mechanisms are being submitted to the Department within the 120 day period required by § 66264 (f)(6). The facilities covered by the Letter of Credit for both closure and liability are as follows:

Identification No.	Facility	Closure Estimate	Liability Coverage
CAD041162124	Missile Systems Co. 8433 Fallbrook Ave. Canoga Park, CA 91304	$55,000	$2,000,000
CAD000633230	Electro-Optical Systems 2000 E. El Segundo Blvd. El Segundo, CA 90245	$127,743	$2,000,000
CAD063109243	Surface Systems 1901 W. Malvern Ave. Fullerton, CA 92634	$392,000	$2,000,000
CAD041156969	Hughes Research Labs 3011 Malibu Canyon Road Malibu, CA 90265	$235,661	$2,000,000
CAD057468944	Microelectronic Circuits Division 500 Superior Ave. Newport Beach, CA 92658	$141,233	$2,000,000

Corporate Offices: 7200 Hughes Terrace
PO Box 80028, Los Angeles CA 90080-0028
(310) 568-7200

Identification No.	Facility	Closure Estimate	Liability Coverage
CAT080010853	Radar Systems 2000 E. Imperial Highway El Segundo, CA 90245	$198,172	$2,000,000
CAD060897063	Hughes Space & Communications Co. 1920 E. Imperial Highway El Segundo, CA 90245	$425,000	$2,000,000
CAD028260297	Santa Barbara Research Center 75 Coromar Drive Goleta, CA 93117	$257,854	$2,000,000
CAD981385073	Santa Barbara Research Center 2100 South Blosser Santa Maria, CA 93454	$274,082	$2,000,000
CAD041666819	Electron Dynamics Division 3100 W. Lomita Blvd. Torrance, CA 90509	$289,241	$2,000,000
CAD008351827	Hughes Simulation Systems, Inc. 1200 E. San Bernardino Road West Covina, CA 91790	$57,239	$2,000,000

Please note that the Letter of Credit for closure is established at $3,000,000 which provides contingency funding of $546,775 beyond the $2,453,775 total of closure cost estimates.

The following locations of Hughes Aircraft Company have been closed pursuant to § 66264.110 et.seq. and therefore do not require financial assurance:

Hughes Aircraft Company
Support Systems Division
1500 Hughes Way
Long Beach, CA 90810

Hughes Aircraft Company
Connecting Devices Division
17150 von Karman Ave.
Irvine, CA 92714

Hughes Aircraft Company
Space& Communications Group
19300 Grammercy Place
Torrance, CA 90509

The above listed locations are not included in the 1993/1994 Financial Assurance package as they have satisfied the closure requirements.

Should you have any questions, please feel free to contact me at (310) 568-7879.

Sincerely,

Gregory S. Taylor
Corporate Environmental Affairs

cc: Department of Toxic Substances Control
Financial Responsibility Unit
245 W. Broadway, Suite 350
Long Beach, CA 90802-4444
attn. Joyce Haire

JPMorgan

Date: May 12, 1993

Our Irrevocable Standby Letter
of Credit No. S-866323

rgan Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Services

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

Dear Madam:

CLOSURE/POSTCLOSURE LETTER OF CREDIT

We hereby establish our Irrevocable Standby Letter of Credit No. S-866323 in your favor at the request and for the account of Hughes Aircraft Company ("HAC"), 7200 Hughes Terrace, Los Angeles, California 90080-0028, in the aggregate amount of $3,000,000.00, in United States dollars, (THREE MILLION AND 00/100 U.S. DOLLARS) available upon presentation of:

1. Your sight draft(s) on us bearing reference to this Irrevocable Standby Letter of Credit No. S-866323.

and

2. Your signed and dated statement reading as follows:

"We certify that the amount of our draft drawn under Morgan Guaranty Trust Company of New York Irrevocable Standby Letter of Credit No. S-866323 is payable pursuant to regulations issued under authority of the California Hazardous Waste Control Law."

Each draft must be marked "Drawn under Morgan Guaranty Trust Company of New York Irrevocable Standby Letter of Credit No. S-866323 dated May 12, 1993.

Each draft must also be accompanied by the original of this Irrevocable Standby Letter of Credit upon which we may endorse our payment. This Irrevocable Standby Letter of Credit is effective as of May 1, 1993, and shall expire on April 30, 1994, but such expiration date shall be automatically extended for a period of at least one year on April 30, 1994, and on each successive expiration date, unless at least 120 days before the current expiration date, we notify you and HAC by certified mail that we have decided not to extend this Irrevocable Standby Letter of Credit beyond the current expiration date

(continued)

JPMorgan

Date: May 12, 1993

Our Irrevocable Standby Letter
of Credit No. S-866323

Morgan Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Services

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

In the event you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft for 120 days from the date Morgan Guaranty Trust Company of New York notifies both you and HAC by Certified Mail.

This credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision), International Chamber of Commerce Publication No. 400.

Drafts and documents presented by mail should be mailed to Morgan Guaranty Trust Company of New York, c/o J.P. Morgan Services, Inc. P.O. Box 6071 Newark, Delaware, 19714-9857, Attention: International Trade Services. Courier or physical deliveries should be addressed to Morgan Guaranty Trust Company of New York, c/o J.P. Morgan Services, Inc., 500 Stanton Christiana Road, Newark, Delaware, 19713-2107, Attention: International Trade Services. Although we prefer physical presentations be made to our Newark, Delaware location, our 15 Broad Street, New York, New York, 10015 location is also available for your physical presentations. Should you use our 15 Broad Street location for physical presentations, letters of credit/documents must be directed to, the Brokers Loan Unit, Basement A, Attention: International Trade Services.

Whenever this Irrevocable Standby Letter of Credit is drawn on, under, and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of HAC in accordance with your instructions.

Yours very truly,

Authorized Signature
Standby/Guarantee Unit
(302) 634-1833

sm/g:standby\866323

JPMorgan

Date: May 12, 1993
Our Irrevocable Standby
Letter of Credit No. S-866322

EFFECTIVE MAY 1, 1993

Morgan Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Services

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

Dear Madam:

Liability Coverage Letter of Credit

We hereby establish our Irrevocable Standby Letter of Credit No. S-866322 in favor of any and all third-party liability claimants, at the request and for the account of Hughes Aircraft Company, 7200 Hughes Terrace, Los Angeles, California 90080-0028, for third-party liability awards or settlements upon to $2 Million in United States dollars, (TWO MILLION AND 00/100 U.S. DOLLARS), per occurrence, and the annual aggregate amount of $2 Million in United States dollars (TWO MILLION AND 00/100 U.S. DOLLARS) for each of the facilities identified in Schedule A attached hereto, for sudden accidental occurrences available upon presentation of sight draft, bearing reference to this Irrevocable Standby Letter of Credit No. S-866322, and:

(1) A signed certificate reading as follows:

Certificate of Valid Claim

The undersigned, as parties HAC and [insert name and address of third-party claimants] hereby certify that the claim of bodily injury (and/or) property damage caused by a sudden accidental occurrence arising from operations of HAC hazardous waste transfer, treatment, storage, or disposal facility should be paid in the amount of $_____. We hereby certify that the claim does not apply to any of the following:

(a) Bodily injury or property damage for which HAC is obligated to pay damages by reason of assumption of liability to a contract or agreement. This exclusion does not apply to liability for damages that HAC would be obligated to pay in the absence of the contract or agreement.

(b) Any obligation of HAC; under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

(c) Bodily injury to:

Continued

Morgan Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Servic

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

(1) An employee of HAC arising from, and in the course of, employment by HAC; or

(2) The spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by HAC. This exclusion applies:

(A) Whether HAC may be liable as an employer or in any other capacity; and

(B) To any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in paragraphs (1) and (2).

(d) Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

(e) Property damage to:

(1) Any property owned, rented, or occupied by HAC;

(2) Premises that are sold, given away, or abandoned by HAC if the property damage arises out of any part of those premises;

(3) Property loaned to HAC;

(4) Personal property in the care, custody, or control of HAC;

(5) That particular part of real property on which HAC or any contractors or subcontractors working directly or indirectly on behalf of HAC are performing operations, if the property damage arises out of these operations.

Hughes Aircraft Company

_____
Authorized Signer

_____
Claimant(s)

Continued

.organ Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Services

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

Or:

(2) A valid final court order establishing a judgment against the Principal for bodily injury or property damage caused by a sudden accidental occurrence arising from operation of the Principal's facility or group of facilities.

This Irrevocable Standby Letter of Credit is effective as of May 1, 1993, and shall expire on April 30, 1994, but such expiration date shall be automatically extended for a period of at least one year on April 30, 1994, and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and HAC by certified mail that we have decided not to extend this Irrevocable Standby Letter of Credit beyond the current expiration date.

Whenever this Irrevocable Standby Letter of Credit is drawn on, under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us.

In the event this Irrevocable Standby Letter of Credit is used in combination with another mechanism, this Irrevocable Standby Letter of Credit shall be considered primary coverage.

This credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision), International Chamber of Commerce Publication No. 400.

Drafts and documents presented by mail should be mailed to Morgan Guaranty Trust Company of New York, c/o J.P. Morgan Services Inc., P.O. Box 6071 Newark, Delaware, 19714-9857, Attention: International Trade Services. Courier or physical deliveries should be addressed to Morgan Guaranty Trust Company of New York, c/o J.P. Morgan Services, Inc., 500 Stanton Christiana Road, Newark, Delaware, 19713-2107, Attention: International Trade Services. Although we prefer physical presentations be made to our

Continued

JPMorgan

organ Guaranty
Trust Company of
New York

C/O J.P. Morgan Services, Inc.
P.O. Box 6071
Newark, DE 19714-9857
Att: International Trade Services

Date: May 12, 1993
Our Irrevocable Standby
Letter of Credit No. S-866322

EFFECTIVE MAY 1, 1993

Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201
Attn: Cecilia Rosana

Newark, Delaware location, our 15 Broad Street, New York, New York, 10015 location is also available for your physical presentations. Should you use our 15 Broad Street address for physical presentations, letters of credit/documents must be directed to, the Brokers Loan Unit, Basement A, Attention: International Trade Services.

Whenever this Irrevocable Standby Letter of Credit is drawn on, under, and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of HAC in accordance with your instructions.

Yours very truly,

Authorized Signature
Standby/Guarantee Unit
(302) 634-1831

sm/g:standby/866322

A subsidiary of
J.P. Morgan & Co.
Incorporated

SCHEDULE A

EPA Identification Number	Name and Address of Facility	Closure Amount	* Sudden Liability Coverage ($ Millions)
CAD 000 633 230	Electro-Optical Systems 2000 E. El Segundo Blvd. El Segundo, CA 90245	$127,743	$2
CAD 063 109 243	Ground Systems Group 1901 W. Malvern Ave. Fullerton, CA 92634	392,000	$2
CAD 041 156 969	Hughes Research Laboratories 3011 Malibu Canyon Road Malibu, CA 90265	235,661	$2
CAD 057 468 944	Microelectronic Circuits Division 500 Superior Ave. Newport Beach, CA 92658-8903	141,233	$2
CAT'080 010 853	Radar Systems Group 2000 E. Imperial Highway El Segundo, CA 90245	198,172	$2
CAD 060 897 063	Space & Communications Group 1920 E. Imperial Highway El Segundo, CA 90245	425,000	$2
CAD 028 260 297	Santa Barbara Research Center 75 Coromar Drive Goleta, CA 93117	257,854	$2
CAD 981 385 073	Santa Barbara Research Center 2100 South Blosser Santa María, CA 93454	274,082	$2
CAD 041 666 819	Electron Dynamics Division 3100 W. Lomita Blvd. Torrance, CA 90509	289,241	$2
CAD 041 162 124	Missile Systems Group 8433 Failbrook Ave. Canoga Park, CA 91304	55,000	$2
CAD 008 351 827	Hughes Simulation Systems, Inc. 1200 E. San Bernardino Road West Covina, CA 91790	57,239	$2
	Subtotal Closure Amount	$2,453,225	
	Contingency	546,775	
	Total Closure Amount	**$3,000,000**	

* Sudden liability per occurrence and annual aggregate

TRUST AGREEMENT

Trust Account Number: 793943

This agreement is entered into as of May 1, 1993, by and between:

GRANTOR	TRUSTEE
Hughes Aircraft Company ("HAC") 7200 Hughes Terrace Los Angeles, CA 90080-0028	Citibank, N.A. Corporate Trust Department 120 Wall Street New York, NY 10043
A Corporation in the State of Delaware	A National Banking Association

This Trust Agreement is for both closure and/or postclosure and Liability.

Terms of Agreement

WHEREAS, the Department of Health Services (DHS), a department of the State of California, has established certain regulations applicable to the Grantor, requiring that an owner or operator of a hazardous waste management facility shall provide assurance that funds will be available when needed for closure and/or postclosure care of the facility and/or

WHEREAS, the Department of Health Services (DHS), a department of the state of California, has established certain regulations applicable to the Grantor, requiring that an owner or operator of a hazardous waste management facility or group of facilities must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from the operations of the facility or group of facilities.

WHEREAS, the Grantor has elected to establish a trust to provide all or part of such financial assurance for the facilities identified herein.

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the Trustee under this agreement, and the Trustee is willing to act as Trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) The term "Beneficiary" means State of California, Department of Health Services.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified on attached Schedule A.

Section 2.1. Identification of Facilities. This agreement pertains to the facilities identified on attached Schedule A.

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund" for the benefit of the Beneficiary. The Grantor and the Trustee intend that no third party has access to the Fund except as herein provided. The Fund is established initially as consisting of the property and any other property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by the Beneficiary.

Section 3.1. Establishment of Fund. The Grantor and Trustee hereby establish a trust fund, hereinafter the "Fund," for the benefit of any and all third parties injured or damaged by sudden accidental occurrences arising from operation of the facilities covered by this Fund, in the amounts of up to one million dollars per occurrence and up to two million dollars annual aggregate for sudden accidental occurrences, except that the Fund is not established for the benefit of third parties for the following:

(a) Bodily injury or property damage for which Grantor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that Grantor would be obligated to pay in the absence of the contract or agreement.

(b) Any obligation of Grantor under a worker' compensation, disability benefits, or unemployment compensation law or any similar law.

(c) Bodily injury to:

(1) An employee of Grantor arising from, and in the course of, employment by Grantor; or

(2) The spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by Grantor. This exclusion applies:

(A) Whether Grantor may be liable as an employer or in any other capacity; and

(B) To any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in paragraphs (1) and (2).

(d) Bodily injury or property damage arising out of the ownership, maintenance, use or entrustment to others of any aircraft, motor vehicle or watercraft.

(e) Property damage to:

(1) Any property owned, rented, or occupied by Grantor;

(2) Premises that are sold, given away or abandoned by Grantor if the property damage arises out of any part of those premises;

(3) Property loaned to Grantor;

(4) Personal property in the care, custody or control of Grantor;

(5) That particular part of real property in which Grantor or any contractors or subcontractors working directly or indirectly on behalf of Grantor are performing operations, if the property damage arises out of these operations.

In the event of combination with another mechanism for liability coverage, the fund shall be considered primary coverage.

The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the

amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities for the Grantor established by the Beneficiary.

Section 4. Payment for Closure and Postclosure Care. The Trustee shall make payments from the Fund as Beneficiary shall direct, in writing, to provide for the payment of the costs of closure and/or postclosure care of the facilities covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the Beneficiary from the Fund for closure and postclosure expenditures in such amounts as Beneficiary shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as Beneficiary specifies in writing. Upon refund, such funds shall not constitute part of the Fund as defined herein.

Section 4.1. Payment for Bodily Injury or Property Damage. The Trustee shall satisfy a third liability claim by making payments from the Fund only upon receipt of one of the following documents:

(a) Certification from the Grantor and the third party claimant(s) that the liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

Certification of Valid Liability Claim

The undersigned, as parties Grantor and [insert name and address of third party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a sudden accidental occurrence arising from operating Grantor's hazardous waste treatment, storage, or disposal facility should be paid in the amount of $_____.

Hughes Aircraft Company

_____

_____
[Claimant(s)]

or:

(b) A valid final court order establishing a judgment against the Grantor for bodily injury or property damage caused by sudden accidental occurrences arising from the operation of the Grantor's facility or group of facilities.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his or her duties with respect to the trust fund solely in the interest of the Beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(i) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or State Government.

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State Government, and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten or to which investment advice is

rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State Government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuation. The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to Beneficiary a statement confirming the value of the Trust. Any securities in the fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and Beneficiary shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer and pay over to the successor trustee the funds and properties then constituting the Fund. If, for any reason, the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, Beneficiary, and the present Trustee by certified mail ten days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests and instructions. All orders, requests and instructions by the Beneficiary to the Trustee shall be in writing, signed by the Beneficiary designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests and instructions. The Trustee shall have the right to assume, in

the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or the Beneficiary hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests and instructions from the Grantor and/or Beneficiary, except as provided for herein.

Section 15. Notice of Nonpayment. The Trustee shall notify the Grantor and the Beneficiary, by either registered or certified mail within 10 days following the expiration for the 30-day period after the anniversary of the establishment of the Trust, if no payment is received from the Grantor during that period. After the pay-in period is completed, the Trustee shall not be required to send a notice of nonpayment.

Section 15.1. Notice of Nonpayment. If a payment for bodily injury or property damage is made under Section 4 of this Trust, the Trustee shall notify the Grantor of such payment and the amount(s) thereof within five (5) working days. The Grantor shall, on or before the anniversary date of the establishment of the Fund following such notice, either make payments to the Trustee in amounts sufficient to cause the Trust to return to its value immediately prior to the payment of claims under Section 4, or shall provide written proof to the Trustee that other financial assurance for liability coverage has been obtained equaling the amount necessary to return the Trust to its value prior to the payment of claims. If the Grantor does not either make payments to the Trustee or provide the Trustee with such proof, the Trustee shall within 10 working days after the anniversary date of the establishment of the Fund provide a written notice of nonpayment to the Beneficiary.

Section 16. Amendment of Agreement. This agreement may be amended by an instrument in writing executed by the Grantor, the Trustee and the Beneficiary, or by the Trustee and the Beneficiary, if the Grantor ceases to exist.

Section 17. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the Beneficiary, or by the Trustee and the Beneficiary, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 18. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the Beneficiary issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be

subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 19. Choice of Law. This Agreement shall be administered, construed and enforced according to the laws of the State of California.

Section 20. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

Section 21. In the event this trust fund is used in combination with another mechanism coverage for closure and/or postclosure care, this fund shall be considered primary.

IN WITNESS WHEREOF the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written: The parties below certify that this document is being executed in accordance with the requirements of Article 8 of Chapters 14 and 15, Title 22, California Code of Regulations.

"GRANTOR"
HUGHES AIRCRAFT COMPANY

By _____

Title ASSISTANT TREASURER

"TRUSTEE"
CITIBANK, N.A.

By _____

Title _____

EXHIBIT A

**TRUST AGREEMENT BY AND BETWEEN
HUGHES AIRCRAFT COMPANY ("GRANTOR")
AND CITIBANK, N.A. ("TRUSTEE")**

As provided for in Section 14 of the Trust Agreement, the persons, other than the officials of the Beneficiary identified in Section 14 of the Trust Agreement, who, until this Exhibit A is amended, shall have the authority to make orders, requests, and instructions to the trustee are:

Officials of the Grantor who have authority to give instructions are:

S.F. Hull
Assistant Treasurer

SCHEDULE B

List of Property Comprising Trust Fund

None at the time of trust establishment. Funding of this Standby Trust Agreement is contingent upon drafts against those primary Letters of Credit numbers S-866322 and S-866323 issued by Morgan Guaranty Trust Company of New York on May 1, 1993, in accordance with the terms of those Letters of Credit.

SCHEDULE A

EPA Identification Number	Name and Address of Facility	Closure Amount	* Sudden Liability Coverage ($ Millions)
CAD 000 633 230	Electro-Optical Systems 2000 E. El Segundo Blvd. El Segundo, CA 90245	$127,743	$2
CAD 063 109 243	Ground Systems Group 1901 W. Malvern Ave. Fullerton, CA 92634	392,000	$2
CAD 041 156 969	Hughes Research Laboratories 3011 Malibu Canyon Road Malibu, CA 90265	235,661	$2
CAD 057 468 944	Microelectronic Circuits Division 500 Superior Ave. Newport Beach, CA 92658-8903	141,233	$2
CAT 080 010 853	Radar Systems Group 2000 E. Imperial Highway El Segundo, CA 90245	198,172	$2
CAD 060 897 063	Space & Communications Group 1920 E. Imperial Highway El Segundo, CA 90245	425,000	$2
CAD 028 260 297	Santa Barbara Research Center 75 Coromar Drive Goleta, CA 93117	257,854	$2
CAD 981 385 073	Santa Barbara Research Center 2100 South Blosser Santa Maria, CA 93454	274,082	$2
CAD 041 666 819	Electron Dynamics Division 3100 W. Lomita Blvd. Torrance, CA 90509	289,241	$2
CAD 041 162 124	Missile Systems Group 8433 Fallbrook Ave. Canoga Park, CA 91304	55,000	$2
CAD 008 351 827	Hughes Simulation Systems, Inc. 1200 E. San Bernardino Road West Covina, CA 91790	57,239	$2
	Subtotal Closure Amount	$2,453,225	
	Contingency	546,775	
	Total Closure Amount	**$3,000,000**	

* Sudden liability per occurrence and annual aggregate

Appendix D

Health and Safety Plan

HEALTH AND SAFETY PLAN

This plan will be kept onsite during field activities and will be reviewed and updated as necessary. This plan adopts procedures contained in the work plan for the project. This plan is written to satisfy the requirements of Title 8, California Code of Regulations, Sections 1509, 3203, and 5192.

1.0 PROJECT INFORMATION AND DESCRIPTION

CLIENT OR OWNER: Hughes Training Inc. (HTI) **PROJECT NO:** To be determined

PROJECT MANAGER: To be determined OFFICE: To be determined

SITE NAME: HTI Hazardous Waste Storage Area - West Covina

SITE ADDRESS: 1200 E. San Bernardino Road
West Covina, CA

DATE HEALTH AND SAFETY PLAN PREPARED: April 1994

DATE(S) OF INITIAL VISIT: March 1994

DATE(S) OF SITE WORK: To be determined

DURATION OF SITE WORK: The health and safety plan will be in effect from the commencement of site operations until the time that all hazardous operations cease (a duration of approximately 3 to 5 days).

SITE ACCESS: Access to the West Covina facility is by appointment only, and is through the Main Security Post. The contact person is Mr. Ernest D. Biacsi at 817/695-2202.

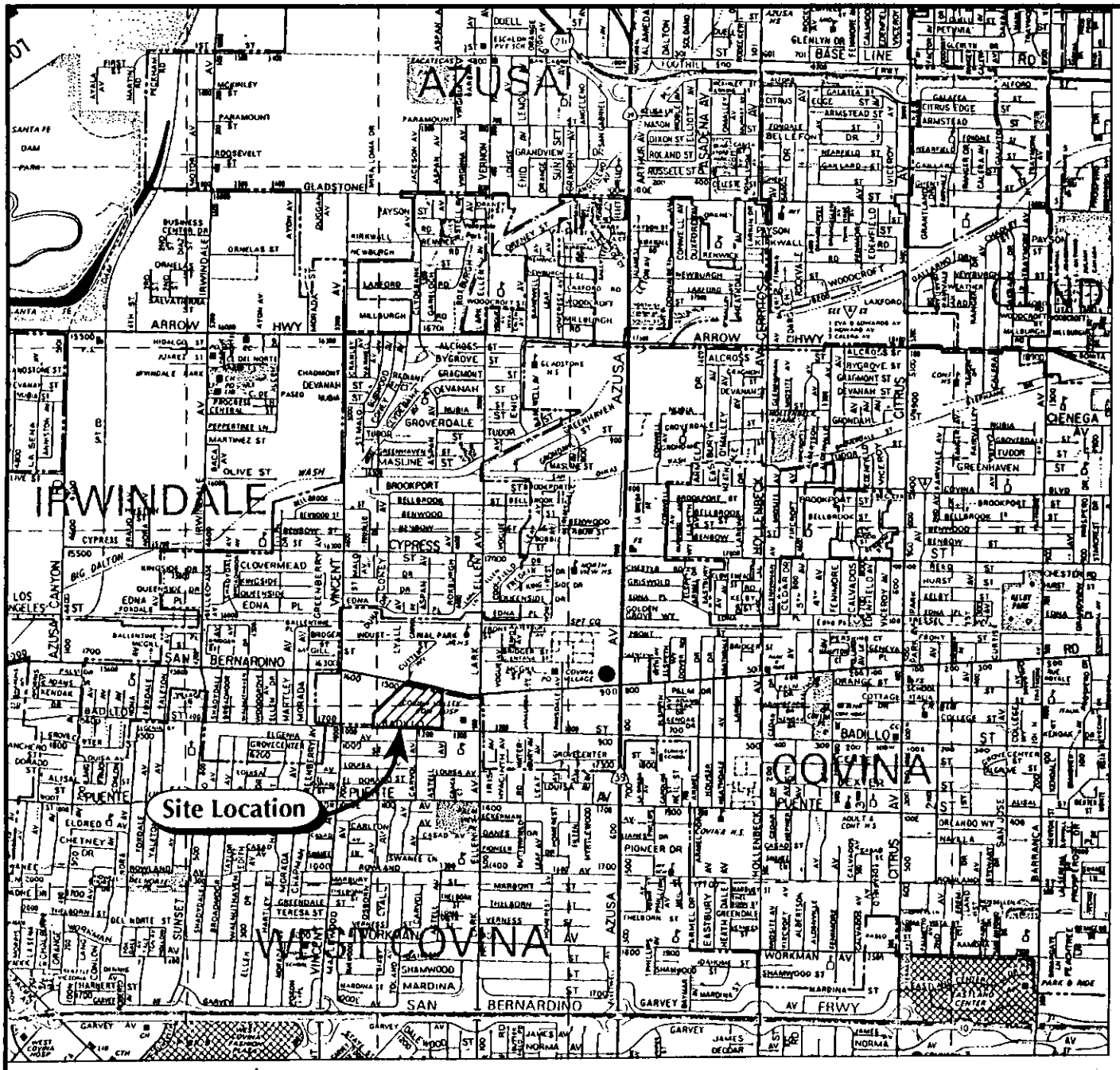
SITE SIZE: Approximately 20 acres

SITE TOPOGRAPHY: The terrain of the site is relatively level.

SITE DESCRIPTION AND HISTORY: The Hazardous Waste Storage Area (HWSA) is a single building located within the HTI facility boundary in a secured area, approximately 135 feet from the south perimeter boundary. Types of waste stored at the facility were typical for the manufacture and assembly of electronic components and accessories. All hazardous wastes were stored in Department of Transportation (DOT)-approved drums and carboys. No hazardous wastes are currently stored in the HWSA.

The HWSA is a 28 foot by 33 foot structure, consisting of a reinforced concrete base with berms and sumps, masonry walls separating six storage bays, a metal frame and roof, and chain-link fencing. The concrete slab is 6 inches thick. There are six below grade sumps designed to contain spills. The total area of the HWSA is approximately 930 square feet.

The HWSA is currently empty and the property on sale. The HWSA will be demolished as part of closure activities and the soils beneath the concrete pad will be sampled to identify any releases. Contamination of soils is not expected. Based on an investigation conducted in 1989 at the HTI facility, neither soil nor groundwater contamination was found.



Source: Los Angeles, Thomas Guide 1991

Figure 1
Site Location
Hughes Training Inc.
West Covina, CA

CH2MHILL

- Conducts employee health and safety communications.
- Establishes and maintains site controls including establishment of work zones (see Section 10.2).
- Completes and submits recordkeeping forms per this plan and corporate policies.
- Attends prework site visit and presents the HSP at the project meeting.
- Will act as emergency coordinator in the event of emergency evacuation of employees from the site. Responsible for handling all medical emergencies (see Section 11.0).

Field Team Members (see Section 4.1): To be determined.

- Perform the work as directed by the FTL and SSC.
- Reports directly to the FTL.
- Responsible for following the direction and assignments of the PM and SSC in the event of an emergency evaluation of employees from the site.
- Report all hazards to the FTL and SSC for corrective action. Health and safety concerns in the field that the SSC or FTL are unable to address satisfactorily shall be brought to the attention of the Project Health and Safety Manager (PHSM).

Project Health and Safety Manager (PHSM)

- Directs the development, implementation, and operation of the HSP.
- Provides review and approval of site-specific health and safety plans.
- Conducts field audits as necessary and in accordance with safety policies and procedures.
- Conducts investigations of accidents to determine cause and necessary corrective actions.

2.2 DESCRIPTION OF TASKS

- Washing
  - HWSA will be steam cleaned or washed using high pressure water.
- HWSA Demolition
  - Demolition and disposal of reinforced concrete pad, masonry walls, and metal frame and roof.

- Soil Sampling
  - A hand corer will be used to sample the soils up to 3 feet underneath the HWSA.
- Demolition oversight activities

The physical (safety) hazards and engineering/administrative controls associated with these tasks are provided in Section 3.2 of this HSP.

2.3 DESCRIPTION OF SUBCONTRACTORS

HWSA washing and demolition procedures will be performed by a subcontractor. The subcontractor is required to provide a document outlining their washing (steam cleaning or high-pressure water cleaning) and demolition safety procedures that can be attached to this Health and Safety Plan (HSP). The SSC will monitor the subcontractor's compliance with this HSP, as well as the subcontractor's safety procedures.

3.0 HAZARD EVALUATION AND CONTROL

3.1 HEAT AND COLD STRESS

3.1.1 GUIDELINES FOR WORKING IN TEMPERATURE EXTREMES WHILE WEARING PERSONAL PROTECTIVE EQUIPMENT (PPE)

Temperature	Work Cycle	Rest Cycle	Control Measures
<32° F or <55° F & raining	2 hrs	15 min	Review cold stress in safety meeting. Rest in a warm area. Drink at least 8 ounces of warm non-caffeinated, non-alcoholic beverage at each rest break. Schedule a mid-day lunch break of at least 30 minutes in a warm area to begin not later than 5 hours after startup.
72° to 77° F	2 hrs	5 min	Review heat stress in safety meeting. Take resting pulse rate before beginning work. Drink 8 ounces of cool water before beginning work, and 4 ounces at rest break. Have ice available.
77° to 82° F	2 hrs	5 min	As above, but seated rest break. Monitor pulse rate. (See below.)
82° to 87° F	60 min	15 min	As above, but rest area to be shaded.
87° to 90° F	30 min	15 min	As above. Try to provide a shaded work area.
>90° F	15 min	15 min	As above. Provide a shaded area with seats in the work area for team members to use as needed. Try to reschedule work to avoid mid-day heat.

PULSE CRITERIA. Take resting radial (wrist) pulse at start of work day; record it. Measure radial pulse for 30 seconds as rest period begins. Pulse not to exceed 110 beats per minute (bpm), or 20 bpm above resting pulse. If pulse exceeds this criteria, reduce work load and/or shorten the work cycle by one third, and observe for signs of heat stress. No team member is to return to work until his/her pulse has returned to <110 bpm, or resting pulse +20 bpm.

3.1.2 SYMPTOMS AND TREATMENT OF HEAT AND COLD STRESS

Heat Stroke	Heat Exhaustion	Frostbite	Hypothermia
Red, hot, dry skin; dizziness; confusion; rapid breathing and pulse; high body temperature.	Pale, clammy, moist skin; profuse sweating; weakness; normal temperature; headache; dizzy; vomiting.	Blanched, white, waxy skin, but tissue resilient; tissue cold and pale.	Shivering, apathy, sleepiness; rapid drop in body temperature; glassy stare; slow pulse; slow respiration.
Cool victim rapidly by soaking in cool (not cold) water. Get medical attention immediately!!	Remove victim to a cool, air conditioned place. Loosen clothing, place in head low position. Have victim drink cool (not cold) water.	Remove victim to a warm place. Rewarm area quickly in warm (not hot) water. Have victim drink warm fluids–not coffee or alcohol. Do not break any blisters. Elevate the injured area and get medical attention.	Remove victim to a warm place. Have victim drink warm fluids–not coffee or alcohol. Get medical attention.

3.2 PHYSICAL (SAFETY) HAZARDS AND CONTROLS

Task/ Operation	Hazard	Engineering or Administrative Controls
Demolition; washing	Flying debris/objects	Provide shielding and PPE.
Demolition; washing	Noise > 85 dBA	Noise protection and monitoring required.
Demolition	Steep terrain/unstable surface	Brace and shore equipment.
Washing	Build-up of explosive gases	Provide 20-lb A,B,C fire extinguisher and ventilation.
Demolition	Build-up of static electricity	No spark sources within 50 feet of an excavation, heavy equipment, or UST removal. Ground as appropriate.
Demolition	Gas cylinders	Make certain gas cylinders are properly anchored and chained. Keep cylinders away from ignition sources.
Washing	High pressure hose rupture	Check to see that fitting and pressurized lines are in good repair before using.
Demolition; washing	Electrical shock	Make certain third wire is properly grounded. Do not tamper with electrical wiring unless qualified to do so.
Demolition	Suspended loads	Work not permitted under suspended loads.
Demolition	Moving vehicles	Backup alarm required for heavy equipment. Observer remains in contact with operator and signals safe backup. Personnel to remain outside of turning radius.
Demolition	Overhead electrical wires	Heavy equipment (e.g., drill rig) to remain at least 15 feet from overhead powerline for powerlines of 50 kV or less. For each kV > 50, increase distance 1/2 foot.
Soil sampling	Buried utilities, drums, tanks, and so forth	Locate buried utilities, drums, tanks, etc. prior to digging or drilling, and mark location.
Demolition; washing	Slip, trip, fall hazards due to muddy work areas or wet/slippery floors	Use wood pallets or similar devices in muddy work areas, and wear boots with skid-resistant soles.
All tasks	Back injury	Use proper lifting techniques, or provide mechanical lifting aides.
None	Confined space entry	Permit and safety plan required.
None	Trenches/excavations	Make certain trench meets OSHA standard before entering. All excavations > 5 feet deep must be sloped or shored. Excavations > 4 feet deep must have a ladder every 25 feet. If not entering trench, remain 2 feet from edge of trench at all times.

Demolition	Protruding objects	Flag visible objects.
Demolition	Vibration	Ensure proper scheduling, worker supervision, and installation of mufflers on vibrating hand tools, such as pneumatic hammers and rotary grinders.
Washing	Burns from steam-cleaning equipment	Use proper PPE and shielding as required by equipment manufacturer to prevent burns
All tasks	Hand Tools	Ensure hand tools are in good condition and appropriate for the job.

3.3 PROCEDURES TO LOCATE BURIED UTILITIES

Location of underground utilities shall be investigated with the client (HTI). The Underground Service Alert shall be contacted at 1-800-422-4133 prior to any excavating or trenching.

3.4 BIOLOGICAL HAZARDS AND CONTROLS

Hazards	Location and Control Measures
Bloodborne pathogens during administration of first aid or CPR.	Personal protective equipment will be used when responding to medical emergencies. Onsite personnel shall be appropriately trained in accordance with the Cal/OSHA Bloodborne Pathogens Standard, Title 8, California Code of Regulations, Section 5192.

3.5 TICK BITES, LYME DISEASE, AND ROCKY MOUNTAIN SPOTTED FEVER (RMSF)

Check often for tick bites. If bitten, carefully remove tick with tweezers, making certain to remove pincers, being careful not to crush the tick. After removing the tick, wash your hands. Disinfect area, and dress. If the tick resists or cannot be completely removed, seek medical attention.

Look for symptoms of lyme disease or RMSF. Lyme: rash that looks like a "bulls-eye," with small welt in center, several days to weeks after tick bite. RMSF: Rash comprising red spots under skin, 3 to 10 days after tick bite. For both, chills, fever, headache, fatigue, stiff neck, bone pain. If symptoms appear, seek medical attention.

3.6 RADIOLOGICAL HAZARDS AND CONTROLS

No radiologic hazards are expected.

3.7 HAZARDS POSED BY CHEMICALS BROUGHT ONSITE

The Project Manager is to request Material Safety Data Sheets (MSDSs) from the client, or contractors and subcontractors, for chemicals that onsite employees are potentially exposed to. This page is a landscape table for 3.8 Known Contaminants of Concern and 3.9 Potential Routes of Exposure

Chemical	Location
Methane (100 ppm)	Calibration gas for OVA
Methanol	Decontamination Area
Trisodium Phosphate	Decontamination Area

3.8 POTENTIAL CONTAMINANTS OF CONCERN

Contaminant Name	Location and Highest Concentration	PEL, or TLV[1]	IDLH	Symptoms and Effects of Exposure	PIP[3] (eV)
1,1,1-Trichloroethane (1,1,1-TCA)	No analysis completed	350 ppm[5]	1,000 ppm	Headache, lassitude, CNS depression, poor equilibrium, eye irritation, dermatitis	11.00
2-Butanone (Methyl Ethyl Ketone, MEK)	No analysis completed	200 ppm	3,000 ppm	Eye and nose irritation, headache, dizziness, vomiting	9.54
Hydrogen Chloride (Hydrochloric Acid)	No analysis completed	5 ppm C[7]	100 ppm	Inflammation of nose and throat, coughing, eye and skin burns, dermatitis	12.74
Isopropyl Alcohol	No analysis completed	400 ppm	12,000 ppm	Mild eye, nose, and throat irritation; drowsiness; dizziness; headache; dry cracking skin	10.10
Lead	No analysis completed	0.05 mg/m3[6]	700 mg/m3	Weakness, lassitude, facial pallor, abdominal pain, constipation	NA[4]
Methylene Chloride	No analysis completed	50 ppm	Ca[8] (5,000 ppm)	Fatigue, weakness, sleepiness, light headiness, numbness and tingling of limbs, nausea, eye and skin irritation	11.32
Sulfuric Acid	No analysis completed	1 mg/m3	80 mg/m3	Eye, nose, and throat irritation; bronchitis; dental erosion; skin and eye irritation; dermatitis	NL[2]
Toluene	No analysis completed	100 ppm	2,000 ppm	Fatigue, weakness, confusion, dizziness, headache, dilated pupils, muscle fatigue, dermatitis	8.82
Xylenes, o & p	No analysis completed	100 ppm	1,000 ppm	Dizziness; excitement; drowsiness; staggering gait; eyes, nose, and throat irritation; nausea; vomiting; dermatitis	8.44 - 8.56
Sodium Carbonate	No analysis completed	NL	NL	Moderately toxic by inhalation and subcutaneous routes. Mildly toxic by ingestion.	NL
Nitric Acid	No analysis completed	2 ppm	100 ppm	Eye, mucous membrane, and skin irritation; bronchitis; delayed pulmonary	11.95
Phosphoric Acid	No analysis completed	1 mg/m^3	10,000 mg/m^3	Eye, skin, and upper respiratory irritation; eye and skin burns; dermatitis	NL
Formaldehyde	No analysis completed	1 ppm	Ca (30 ppm)	Eye, nose and throat irritation; cough; burns nose; bronchial spasm; pulmonary irritation; dermatitis	10.88
Petroleum Naphtha	No analysis completed	100 ppm	10,000 ppm	Lightheaded; drowsiness; eye, nose and skin irritation; dermatitis	NL

3.8 POTENTIAL CONTAMINANTS OF CONCERN

Contaminant Name	Location and Highest Concentration	PEL, or TLV[1]	IDLH	Symptoms and Effects of Exposure	PIP[3] (eV)
PCB (42% chlorine)	No analysis completed	0.5 mg/m^3	Ca (10 mg/m^3)	Eye irritation; chloracne	NL
PCB (54% chlorine)	No analysis completed	0.5 mg/m^3	Ca (5 mg/m^3)	Eye and skin irritation; acne-form dermatitis	NL
Ethylene glycol monomethyl ether	No analysis completed	5 ppm	2000 ppm	Headache, drowsiness; weakness; tremors; eye irritation	9.60
Ethylene glycol monoethyl ether	No analysis completed	5 ppm	6000 ppm	Eye and pulmonary irritation; liver, kidney, and lung damage	NL
Chromium (metal)	No analysis completed	0.5 mg/m^3	NL	Histologic fibrosis of lungs	NA
Ethyl Benzene	No analysis completed	100 ppm	2,000 ppm	Eye and mucous membrane irritation; headache; dermatitis; narcotic	8.76
Trichlorethylene	No analysis completed	50 ppm	Ca (1,000 ppm)	Headache; vertigo; visual disturbance; tremors; nausea; vomiting; eye irritation; dermatitis; cardiac arrhythmias	9.45
1,4-Dioxane	No analysis completed	25 ppm	Ca (2,000 ppm)	Drowsiness; headache; nausea; vomiting; eye, nose, throat, and skin irritation	9.13
Ethyl Acetate	No analysis completed	400 ppm	10,000 ppm	Eye, nose, and throat irritation; narrosis; dermatitis	10.01
Mineral Oils	No analysis completed	5 mg/m^3	NL	Eye irritation	NL
Fluoboric Acid	No analysis completed	NL	NL	NL	NL
Potassium Dichromate	No analysis completed	NL	NL	Corrosive to skin and mucous membranes	NL
Chromic Acid	No analysis completed	0.1 mg/m^3 C	Ca 30 mg/m^3	Respiration, system irritation; nasal septum perforation; eye and skin ulcerations	NL
Sodium Nitrate	No analysis completed	NL	NL	Moderately toxic by ingestion	NL

3.8 POTENTIAL CONTAMINANTS OF CONCERN

Contaminant Name	Location and Highest Concentration	PEL, or TLV[1]	IDLH	Symptoms and Effects of Exposure	PIP[3] (eV)
Petroleum Hydrocarbons	No analysis completed	NL	NL	NL	NL
WD-40	No analysis completed	NL	NL	NL	NL

Note 1: Lower value of PEL or TLV listed
Note 2: NL = no limit found in reference materials
Note 3: PIP = photoionization potential
Note 4: NA = Not Applicable
Note 5: ppm = parts per million
Note 6: mg/m^3 = milligrams per cubic meter of air
Note 7: C = ceiling concentration
Note 8: Ca = Carcinogen

3.9 POTENTIAL ROUTES OF EXPOSURE

DERMAL: Dermal contact with contaminated media will be controlled through the use of PPE.	**INHALATION:** Inhalation of volatile vapors will be controlled through the use of engineering and work practice controls and the use of PPE.	**OTHER:** Incidental ingestion may occur if personnel do not wash their hands and face prior to eating, drinking, or smoking.

4.0 PERSONNEL

4.1 ONSITE EMPLOYEES

All employees onsite will be required to have proof of appropriate medical examinations and tests in accordance with the tasks for which they may be involved. Proof of medical surveillance will be maintained and available for review onsite during the duration of the closure activities. The SSC will be responsible for ensuring that all employees and subcontractors have had the appropriate examinations prior to allowing the individuals access to the active work areas. The SSC will be responsible for maintaining proof of this information onsite. Documentation shall include at a minimum:

a. Proof of passing an approved physical examination per the requirements of Title 8 CCR Section 5192 within the previous 12-month period

b. Proof of acceptable pulmonary function examination/proof of respirator training

c. Proof of company instituted medical surveillance program

Additional documentation such as blood screens may be requested upon determination of employee's exposure to heavy metals and PCBs.

Prior to the commencement of site activities, all required medical documentation and 40-Hour Hazardous Waste Operations Training will be evaluated for any deficiencies.

Toilet and washing facilities will be provided within the main facility building (A45). The location of these facilities will be identified to all site personnel before commencement of site operations.

Employees listed below are enrolled in the chemical protection program (CPP) and meet the medical surveillance, 40-hour initial training, 3-day on-the-job experience, and 8-hour annual refresher training requirements of OSHA 29CFR1910.120. Employees designated "SSC" have received 8 hours of supervisor and 8 hours of instrument training and can serve as site safety coordinator (SSC) for the level of protection indicated. There must be one SSC present during any task performed in exclusion or decontamination zones with the potential for exposure to safety and health hazards. Employees designated "FA-CPR" are currently certified by the American Red Cross, or equivalent, in first aid and CPR. There must be one FA-CPR designated employee present during any task performed in exclusion or decontamination zones with the potential for exposure to safety and health hazards. The "buddy system" requirements of OSHA 29CFR1910.120 are to be met at all times.

Employee Name	Office	Responsibility	SSC/FA-CPR
To be determined		Field Team Leader	
To be determined		Site Safety Coordinator	Level ( ) SSC; FA-CPR

4.2 HEALTH AND SAFETY AND FIELD TEAM CHAIN OF COMMAND AND PROCEDURES

4.2.1 CLIENT

Hughes Training Inc.
Ernest D. Biacsi–Manager, Safety, Health and Environmental Affairs (SHEA)
817/695-2202

4.2.2 CONTRACTOR

In the event of an emergency, the SSC should be contacted immediately. See Section 12.0 and 13.0 for emergency contacts.

4.2.3 SUBCONTRACTOR

Subcontractor health and safety and emergency contacts shall be listed in Section 14.0.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE) SPECIFICATION

Task	Level[1]	Body	Foot	Head[2]	Eye	Hand	Respirator
Washing and demolition oversight activities; demolition activities	D	Cotton coveralls or work clothing	Steel-toed, steel-shanked boots	Hardhat Hearing protection for controlling noise exposures	Safety glasses Safety goggles or faceshield if flying debris potential is present	Work gloves (optional)	None required.
Washing (steam cleaning or high-pressure water cleaning)	C	Rainsuits taped to boots and gloves	Steel-toed, steel-shanked, neoprene boots-taped	Hardhat Hearing protection for controlling noise exposures	Safety goggles and face shield	Inner nitrile and outer neoprene gloves	APR with combination organic vapor/ acid gas/HEPA cartridges
Demolition activities; soil sampling	C	Tyvek taped to boots and gloves. Coated Tyvek taped to boots and gloves if splash potential is present	Steel-toed, steel shanked neoprene boots-taped	Hardhat Hearing protection for controlling noise exposures	Safety glasses Safety goggles or faceshield if flying debris or splash potential is present	Inner nitrile and outer neoprene gloves	APR, full face, MSA Ultratwin or equivalent, with combination organic vapor/ acid gas/HEPA filter cartridges

Note 1: This HSP is approved for a Level C Protection Level maximum. If a higher level is required, work will stop and the PHSM will be contacted.
Note 2: The SSC shall specify hardhat areas.

5.1 REASONS TO UPGRADE OR DOWNGRADE LEVEL OF PROTECTION

Upgrade	Downgrade
• Request of individual performing task. • Change in work task that will increase contact or potential contact with hazardous materials. • Occurrence or likely occurrence of gas or vapor emission. • Known or suspected presence of dermal hazards. • Instrument action levels (Section 6.0) exceeded.	• New information indicating that situation is less hazardous than originally thought. • Change in site conditions that decreases the hazard. • Change in work task that will reduce contact with hazardous materials.

6.0 AIR MONITORING EQUIPMENT SPECIFICATION

Instrument	Tasks	Action Levels		Frequency	Calibration
Flame Ionization Detector (FID): OVA-128[4]	Washing and demolition activities; soil sampling	0-1 ppm[ab1] >1-5 ppm[ab] >5 ppm[ab]	Level D Level C Stop work; re-evaluate	Initial monitoring, followed by 5-minute continuous monitoring every hour. Record initial and hourly readings.	Daily
Dust Monitor: Mini Ram	Demolition activities	0-5 mg/m^3[ab] >5-10 mg/m^3[ab] >10 mg/m^3[ab]	Level D Level C Stop work; re-evaluate	When visible dust is present in worker's breathing zone, and at 15-minute intervals while elevated readings are sustained.	Zero daily Pre- and Post-use
Heat Stress Monitor	All tasks	Refer to Section 3.1 of this HSP.		Per Section 3.1 of this HSP	Daily
Noise Level Monitor	All tasks (see next column: Action Levels)	Sound level meter will be employed in areas where high noise levels are expected to occur. In the event that sound level meter readings exceed allowable threshold limits, >85 dBA on a consistent 30-minute basis, employees working in such high noise environments will be required to modify their work activities. This modification will include removing the employee from the high noise area, implementation of additional noise controls, or modifying the activity causing excessive noise levels. In the event that such controls do not alleviate high noise exposures, dosimeters will be employed to monitor employee exposures.			Daily
Personal Noise Dosimeter	Any task for which controls do not alleviate high noise exposures.	If determined that an employee could potentially be exposed to an 8-hour time weighted average (TWA) noise exposure of >85 dBA, based on noise level measurements and planned activities, the employee will be equipped with a personal noise dosimeter for the entire workshift.			Daily Pre- and Post-use

Note 1: ab = above background

6.1 CALIBRATION SPECIFICATION

Instrument	Gas	Span	Reading	Method
FID: OVA-128	100 ppm methane	3.0 ± 1.5	100 ppm	1.5 l/m reg T-tubing

6.2 AIR SAMPLING

No personal air sampling is required. However, air monitoring will be conducted with direct reading instruments as specified in Section 6.0. The SSC is responsible for interpreting the direct reading instruments and for contacting the PHSM when elevated readings are obtained.

7.0 DECONTAMINATION SPECIFICATION

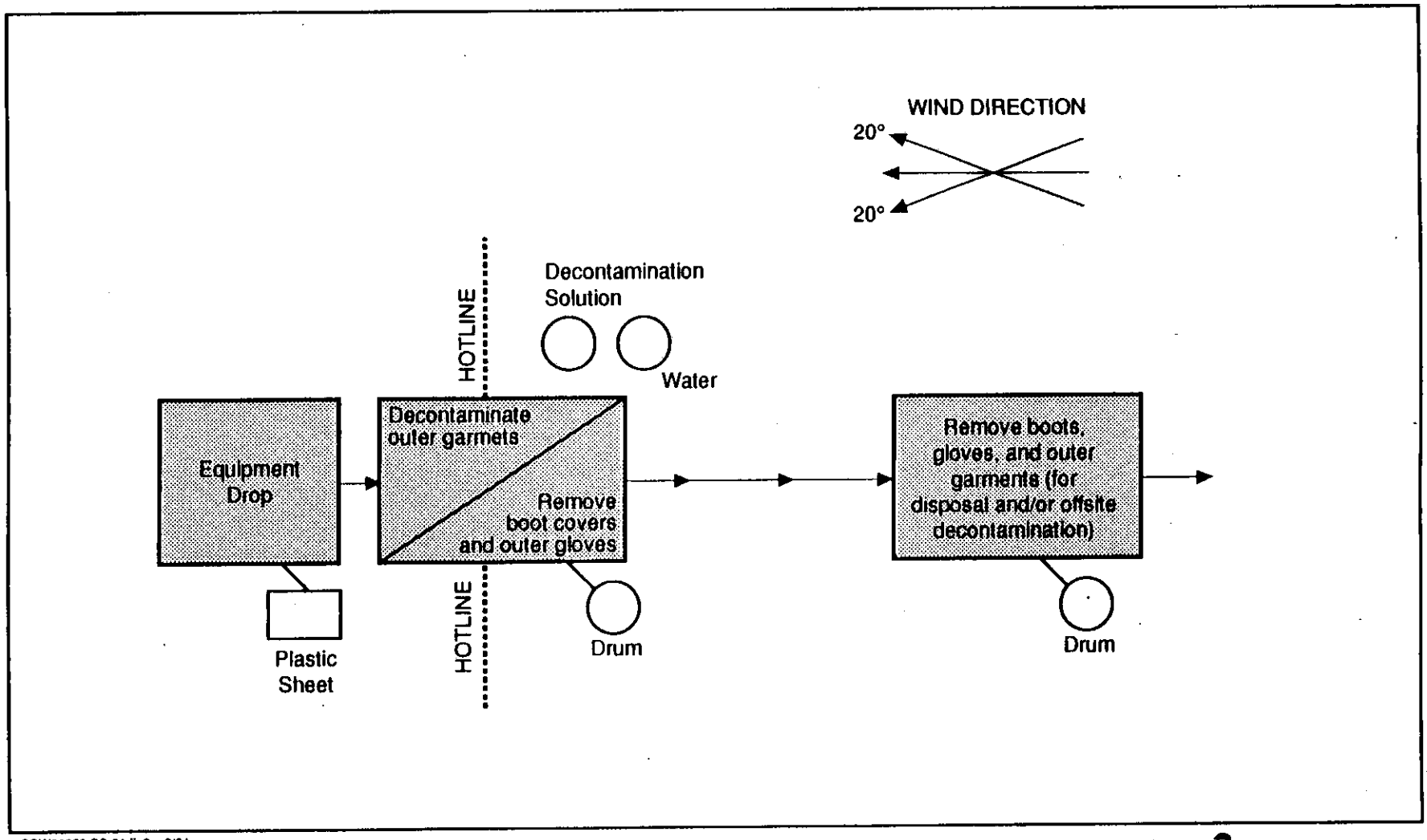
Personnel	Sample Equipment	Heavy Equipment
• Boot wash/rinse	• Wash/rinse equipment	• Power wash
• Glove wash/rinse	• Solvent rinse equipment	• Steam clean
• Outer glove removal	• Solvent disposal method: Containerize	• Water disposal method: Containerize
• Body suit removal		
• Inner glove removal		
• Respirator removal		
• Hand wash/rinse		
• Face wash/rinse		
• Shower ASAP		
• PPE disposal method: Containerize		
• Water disposal method: containerize		

7.1 DIAGRAM OF PERSONNEL DECONTAMINATION LINE

A decontamination line as described in Section 7.0 will be established. Typical Level D and Level C decontamination diagrams have been included as Figures 2 and 3, respectively. In the event of an

emergency evacuation of the site, decontamination procedures will be modified to address the safety of the employee as well as the spread of potential contamination.

Such modification may include hosing down employees prior to departing the exclusion zone. Emergency decontamination procedures will be determined prior to daily activities and will be based upon expected hazards or operations to be performed.



mSCW36353.CS.01 fig2 2/94

Figure 2
Typical Level D
Decontamination Schematic

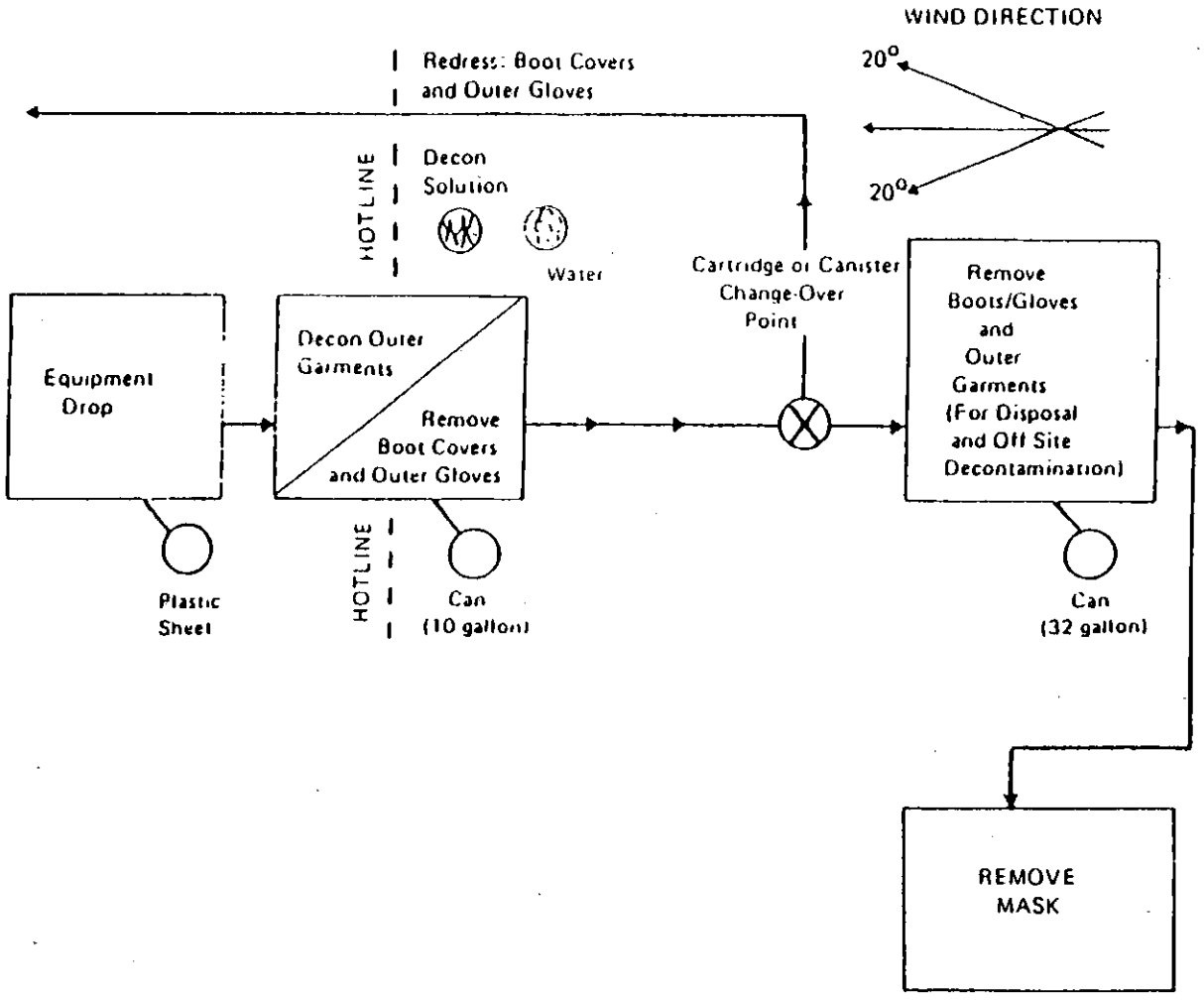


Figure 3
DECONTAMINATION DIAGRAM–LEVEL C

From: Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities. NIOSH/OSHA/USCG/EPA

8.0 SPILL CONTAINMENT PROCEDURES

The HWSA is designed for the safe storage and containment of containerized hazardous waste materials. Decontamination water will be containerized in 55-gallon drums and properly disposed of. The client is responsible for disposal of all wastes generated during the project. Liquid materials will be limited to the amount required and will be handled over plastic sheeting or containers. If a spill occurs, the affected media will be removed to the extent possible and will be containerized.

9.0 CONFINED SPACE ENTRY

Confined space entry requires an additional health and safety plan and a permit. Confined space entry is not anticipated during onsite activities.

10.0 WORK PROCEDURES

10.1 WORK PRACTICES

- No spark sources within exclusion or decontamination zones.
- Avoid visibly contaminated areas.
- No eating, drinking, or smoking in contaminated areas, or exclusion or decontamination zones.
- SSC to establish areas for eating, drinking, smoking.
- No contact lenses in exclusion or decontamination zones.
- No facial hair that would interfere with respirator fit if Level C or B is anticipated.
- Site work will be performed during daylight hours whenever possible. Any work conducted during hours of darkness will require enough illumination intensity "to read a newspaper without difficulty."

10.2 SITE CONTROL MEASURES

- Site safety coordinator (SSC) to conduct site safety briefing (see below) before starting field activities, or as tasks and site conditions change.
- SSC records safety briefing attendance in logbook, and documents topics discussed.
- Post OSHA job site poster in a central and conspicuous location at the site.
- Determine wind direction.
- Establish work zones: support, decontamination, and exclusion zones, and delineate work zones with flagging or cones as appropriate. Support zone upwind of site.
- Establish decontamination procedures, including respirator decontamination procedures, and test.
- Utilize access control at the entry and exit from each work zone.
- Chemicals to be stored in proper containers.
- MSDSs are available for onsite chemicals employees exposed to.

- Establish onsite communications. These should consist of:
  - Line of sight/hand signals
  - Air horn
  - Two-way radio or cellular phone if available
- Establish emergency signals. For example:
  - Grasping throat with hand–EMERGENCY–HELP ME
  - Grasping buddy wrist–LEAVE AREA NOW
  - Thumbs up–OK, UNDERSTOOD
  - Two short blasts on air horn–ALL CLEAR
  - Continuous air horn–EMERGENCY–EVACUATE
- Establish offsite communications.
- Establish "buddy" system.
- Establish procedures for disposal of material generated onsite.
- Initial air monitoring conducted by SSC in appropriate level of protection.
- SSC to conduct periodic inspections of work practices to determine effectiveness of this plan. Deficiencies to be noted, reported to DHSM or RHSM, and corrected.
- Site safety briefing topics: general discussion of health and safety plan; site specific hazards; location of work zones; PPE requirements; equipment; special procedures; emergencies.

11.0 EMERGENCY RESPONSE PLAN

11.1 PRE-EMERGENCY PLANNING

The SSC performs the applicable pre-emergency planning tasks before starting field activities and coordinates emergency response with the facility and local emergency service providers as appropriate.

- Locate nearest telephone to the site and inspect onsite communications.
- Locate chemical, safety, radiological, biological hazards.
- Confirm and post emergency telephone numbers and route to hospital.
- Post site map marked with location of emergency equipment and supplies.
- Review emergency response plan for applicability to any changed site conditions, alterations in onsite operations, or personnel availability.
- Evaluate capabilities of local response teams.
- Where appropriate and acceptable to the client, inform emergency room/ambulance service and emergency response teams of anticipated types of site emergencies.
- Designate one vehicle as the emergency vehicle; place hospital directions and map inside; keep keys in ignition during field activities.
- Inventory and check site emergency equipment and supplies.
- Review emergency procedures for personnel injury, exposures, fires, explosions, chemical and vapor releases with field personnel.
- Locate onsite emergency equipment and supplies of clean water.
- Verify local emergency contacts, hospital routes, evacuation routes, and assembly points.
- Drive route to hospital.
- Review names of onsite personnel trained in first aid and CPR.

- Review notification procedures for contacting the medical consultant and team member's occupational physician.
- Rehearse the emergency response plan once prior to site activities.
- Brief new workers on the emergency response plan.

11.2 EMERGENCY EQUIPMENT AND SUPPLIES

The SSC marks the locations of emergency equipment on the site map and posts the map in the support zone.

- 20 lb ABC fire extinguisher
- Industrial first aid kit

11.3 EMERGENCY MEDICAL TREATMENT

- The SSC will assume charge during a medical emergency until the ambulance arrives, or the injured person is admitted to the emergency room.
- Prevent further injury.
- Initiate first aid and CPR.
- Call the ambulance and hospital.
- Determine if decontamination will make injury worse. Yes—seek medical treatment immediately.
- Make certain that injured person is accompanied to emergency room.
- Notify the Project Manager of the injury.
- Notify the District or Regional Health and Safety Manager.
- Notify the injured person's human resources department.
- Prepare an incident report. Submit this to the Corporate Director Health and Safety and Corporate Human Resources Department within 48 hours.

11.4 EVACUATION

- Evacuation routes will be designated by SSC prior to beginning of work.
- Onsite and offsite assembly points will be designated prior to beginning of work.
- Personnel will exit the exclusion zone and assemble at the onsite assembly point upon hearing the emergency signal for evacuation of the exclusion zone.
- Personnel will assemble at the offsite point upon hearing the emergency signal for a site evacuation.
- The SSC and a "buddy" will remain onsite after the site has been evacuated (if possible) to assist local responders and advise them of the nature and location of the incident.
- SSC accounts for all personnel in the onsite assembly zone.
- A person designated by the SSC (prior to work) will account for personnel at the offsite assembly area.
- The SSC is to write up the incident as soon as possible after it occurs, and submit a report to the Corporate Director Health and Safety.

11.5 EVACUATION ROUTES AND ASSEMBLY POINTS

In the event of an emergency, personnel will evacuate the area using an up- or crosswind route and decontaminate themselves as much as possible. An assembly point will be identified by the SSC prior to beginning work.

11.6 EVACUATION SIGNALS

Exclusion Zone	Site
The "buddy" system. See Section 10.2.	The "buddy" system. See Section 10.2.

12.0 EMERGENCY RESPONSE TELEPHONE NUMBERS

SITE ADDRESS: 1200 E. San Bernardino Road, West Covina, CA — **Phone:**

Police: — **Phone:** 911

Fire: — **Phone:** 911

Ambulance: — **Phone:** 911

Water: Azusa Valley Water Company — **Phone:** 818/334-7881

Gas: Southern California Gas Company — **Phone:** 818/358-0880

Electric: Southern California Edison — **Phone:** 818/967-7411

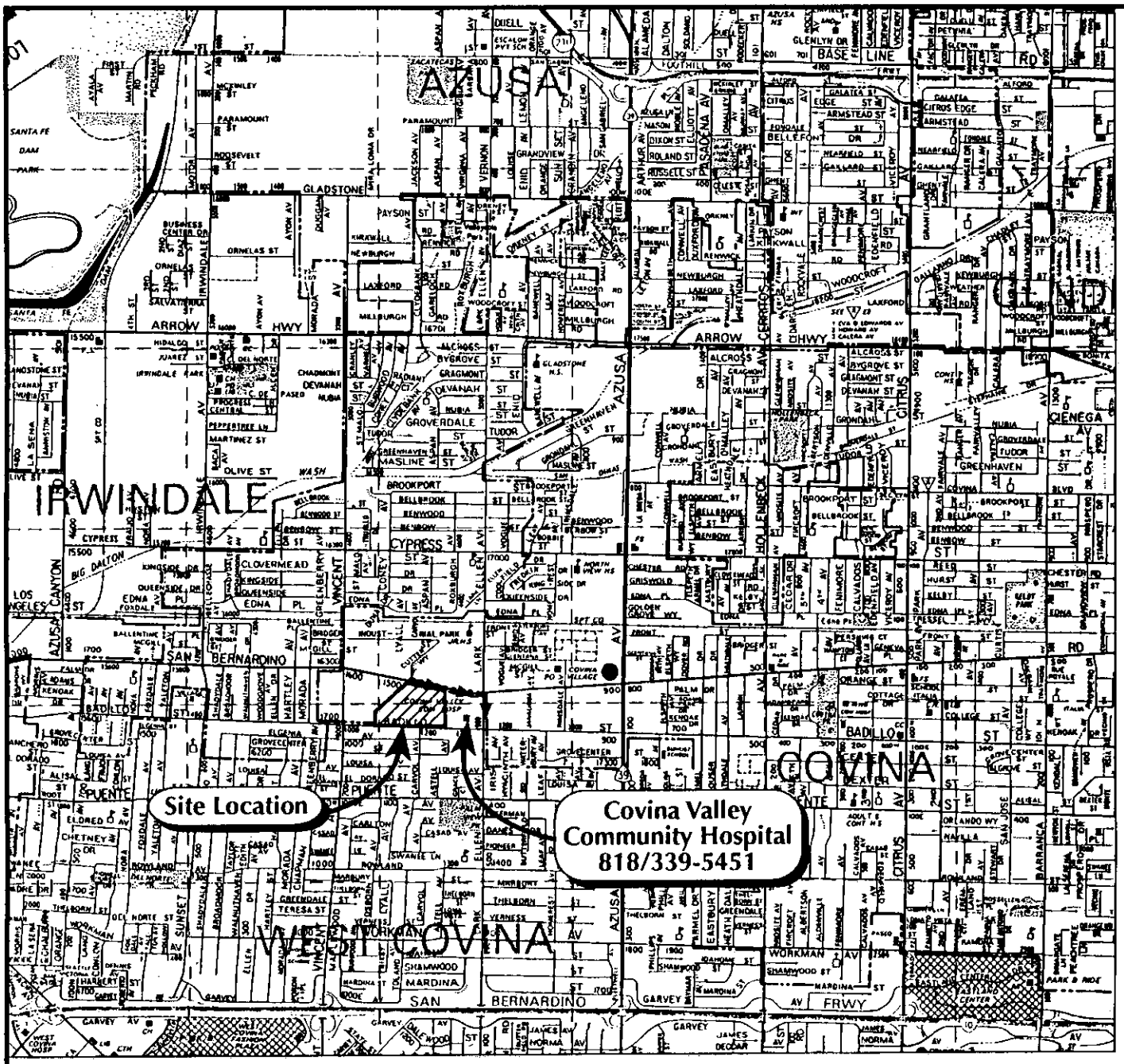
Hospital: Covina Valley Community Hospital — **Phone:** 818/339-5451
Address: 845 N. Lark Ellen Avenue, West Covina, CA 91790

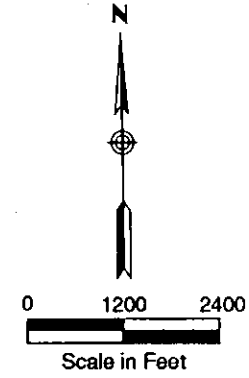
Route to Hospital: (Refer to map, Figure 4, page 20

Turn east (right) on E. San Bernardino Road out of the main security post. Turn south (right) on N. Lark Ellen Avenue. The Covina Valley Community Hospital is on the west (right) side of N. Lark Ellen Avenue, just north of Badillo Street.

12.1 GOVERNMENT AGENCIES INVOLVED IN PROJECT

State: California Environmental Protection Agency, Department of Toxic Substance Control, Region 3 — **Phone:**818/551-2800





Source: Los Angeles, Thomas Guide 1991

Figure 4
Route to Hospital
Hughes Training Inc.
West Covina, CA

CH2M HILL

13.0 CONTRACTOR EMERGENCY CONTACTS (To be determined)

Medical Consultant	**Occupational Physician (Regional or Local)**
Corporate Director Health and Safety Name: Phone:	**Site Safety Coordinator (SSC)** Name: Phone:
District Health and Safety Manager (DHSM) Name: Phone:	**Regional Manager** Name: Phone:
Regional Health and Safety Manager (PHSM) Name: Phone:	**Project Manager** Name: Phone:
Radiation Health Manager (RHM) Name: Phone:	**Regional Human Resources Department** Name: Phone:
Client Hughes Training Inc. Name: Ernest D. Biacsi Phone: 817/695-2202	**Corporate Human Resources Department** Name: Phone: If an injury occurs, notify the injured person's personnel office as soon as possible after obtaining medical attention for the injured. Notification MUST be made within 24 hours of the injury.

14.0 SUBCONTRACTOR EMERGENCY CONTACTS (To be determined)

Medical Consultant	**Occupational Physician (Regional or Local)**
Corporate Director Health and Safety Name: Phone:	**Site Safety Coordinator (SSC)** Name: Phone:
District Health and Safety Manager (DHSM) Name: Phone:	**Regional Manager** Name: Phone:
Project Health and Safety Manager (HSM) Name: Phone:	**Project Manager** Name: Phone:
Radiation Health Manager (RHM) Name: Phone:	**Regional Human Resources Department** **Name:** **Phone:**
Client	**Corporate Human Resources Department** Name: Phone: If an injury occurs, notify the injured person's personnel office as soon as possible after obtaining medical attention for the injured. Notification MUST be made within 24 hours of the injury.

15.0 PLAN APPROVAL
This health and safety plan is written for the specific site conditions, purposes, dates, and personnel specified and must be amended if these conditions change.
PLAN WRITTEN BY: **DATE:**
PLAN APPROVED BY: **DATE:**
15.1 PLAN AMENDMENTS
DATE: CHANGES MADE BY:
CHANGES TO PLAN: **APPROVED:** **DATE:**
15.2 PLAN AMENDMENTS
DATE: CHANGES MADE BY:
CHANGES TO PLAN:
APPROVED: **DATE:**
16.0 ATTACHMENTS TO PLAN
Attachment 1: Employee signoff **Attachment 2:** Applicable MSDSs **Attachment 3:** Demolition Safety Procedures

ATTACHMENT 1

EMPLOYEE SIGNOFF

The employees listed below have been provided a copy of this health and safety plan, have read and understood it, and agree to abide by its provisions.

EMPLOYEE NAME	EMPLOYEE SIGNATURE / DATE

Attachment 2

Applicable MSDSs

METHANE

MTH

Common Synonyms	Gas	Colorless	Weak odor
Marsh gas Natural gas	Liquid floats and boils on water. Flammable visible vapor cloud is produced.		

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Evacuate area in case of large discharge.
Avoid contact with liquid and vapor.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Flashback along vapor trail may occur.
May explode if ignited in an enclosed area.
Stop discharge if possible.
Cool exposed containers and protect men effecting shutoff with water.
Let fire burn.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Not irritating to eyes, nose or throat.
If inhaled, will cause dizziness, difficult breathing, and loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Will cause frostbite.
Flush affected areas with plenty of water.
DO NOT RUB AFFECTED AREAS.

Water Pollution

Not harmful to aquatic life.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook)

Issue warning-high flammability
Restrict access
Evacuate area

2. LABEL

2.1 Category: Flammable gas
2.2 Class: 2

3. CHEMICAL DESIGNATIONS

3.1 CG Compatibility Class: Paraffin
3.2 Formula: CH_4
3.3 IMO/UN Designation: 2.0/1971
3.4 DOT ID No.: 1971
3.5 CAS Registry No.: 74-82-8

4. OBSERVABLE CHARACTERISTICS

4.1 Physical State (as shipped): Liquefied gas
4.2 Color: Colorless
4.3 Odor: Mild, sweet

5. HEALTH HAZARDS

5.1 Personal Protective Equipment: Self-contained breathing apparatus for high concentrations; protective clothing if exposed to liquid.
5.2 Symptoms Following Exposure: High concentrations may cause asphyxiation. No systemic effects, even at 5% concentration in air.
5.3 Treatment of Exposure: Remove to fresh air. Support respiration.
5.4 Threshold Limit Value: Not pertinent (methane is an asphyxiant, and limiting factor is available oxygen)
5.5 Short Term Inhalation Limits: Data not available
5.6 Toxicity by Ingestion: Not pertinent
5.7 Late Toxicity: None
5.8 Vapor (Gas) Irritant Characteristics: Vapors are nonirritating to the eyes and throat.
5.9 Liquid or Solid Irritant Characteristics: No appreciable hazard. Practically harmless to the skin, because it evaporates quickly, but may cause some frostbite.
5.10 Odor Threshold: 200 ppm
5.11 IDLH Value: Data not available

6. FIRE HAZARDS

6.1 Flash Point: Flammable gas
6.2 Flammable Limits in Air: 5.0%-15.0%
6.3 Fire Extinguishing Agents: Stop flow of gas
6.4 Fire Extinguishing Agents Not to be Used: Water
6.5 Special Hazards of Combustion Products: None
6.6 Behavior in Fire: Not pertinent
6.7 Ignition Temperature: 1004°F
6.8 Electrical Hazard: Class I, Group D
6.9 Burning Rate: 12.5 mm/min.
6.10 Adiabatic Flame Temperature: 2336. (Est.)
6.11 Stoichiometric Air to Fuel Ratio: 17.16 (Est.)
6.12 Flame Temperature: Data not available

7. CHEMICAL REACTIVITY

7.1 Reactivity With Water: No reaction
7.2 Reactivity with Common Materials: No reaction
7.3 Stability During Transport: Stable
7.4 Neutralizing Agents for Acids and Caustics: Not pertinent
7.5 Polymerization: Not pertinent
7.6 Inhibitor of Polymerization: Not pertinent
7.7 Molar Ratio (Reactant to Product): Data not available
7.8 Reactivity Group: 31

8. WATER POLLUTION

8.1 Aquatic Toxicity: None
8.2 Waterfowl Toxicity: None
8.3 Biological Oxygen Demand (BOD): None
8.4 Food Chain Concentration Potential: None

9. SHIPPING INFORMATION

9.1 Grades of Purity: Research grade; pure grade
9.2 Storage Temperature: -260°F
9.3 Inert Atmosphere: No requirement
9.4 Venting: Safety relief

10. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook)

A-B-C-D-E-F-G

11. HAZARD CLASSIFICATIONS

11.1 Code of Federal Regulations: Flammable gas
11.2 NAS Hazard Rating for Bulk Water Transportation:

Category	Rating
Fire	4
Health	
Vapor Irritant	0
Liquid or Solid Irritant	0
Poisons	0
Water Pollution	
Human Toxicity	0
Aquatic Toxicity	0
Aesthetic Effect	0
Reactivity	
Other Chemicals	0
Water	0
Self Reaction	0

11.3 NFPA Hazard Classification:

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	4
Reactivity (Yellow)	0

12. PHYSICAL AND CHEMICAL PROPERTIES

12.1 Physical State at 15°C and 1 atm: Gas
12.2 Molecular Weight: 16.04
12.3 Boiling Point at 1 atm: −258.7°F = −161.5°C = 111.7°K
12.4 Freezing Point: −296.5°F = −182.5°C = 90.7°K
12.5 Critical Temperature: −116.5°F = −82.5°C = 190.7°K
12.6 Critical Pressure: 668 psa = 45.44 atm = 4.60 MN/m²
12.7 Specific Gravity: 0.422 at −160°C (liquid)
12.8 Liquid Surface Tension: 14 dynes/cm = 0.014 N/m at −161°C
12.9 Liquid Water Interfacial Tension: (est.) 50 dynes/cm = 0.050 N/m at −161°C
12.10 Vapor (Gas) Specific Gravity: 0.55 1.0
12.11 Ratio of Specific Heats of Vapor (Gas): 1.306
12.12 Latent Heat of Vaporization: 219.4 Btu/lb = 121.9 cal/g = 5.100 X 10⁸ J/kg
12.13 Heat of Combustion: −21,517 Btu/lb = −11,954 cal/g = −500.2 X 10⁸ J/kg
12.14 Heat of Decomposition: Not pertinent
12.15 Heat of Solution: Not pertinent
12.16 Heat of Polymerization: Not pertinent
12.25 Heat of Fusion: 13.96 cal/g
12.26 Limiting Value: Data not available
12.27 Reid Vapor Pressure: Very high

NOTES

METHANE

12.17 SATURATED LIQUID DENSITY		12.18 LIQUID HEAT CAPACITY		12.19 LIQUID THERMAL CONDUCTIVITY		12.20 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit-inch per hour-square foot-F	Temperature (degrees F)	Centipoise
—290	27.990	—290	.802		N	—290	.290
—288	27.900	—285	.808		O	—285	.254
—286	27.800	—280	.815		T	—280	.225
—284	27.700	—275	.821			—275	.200
—282	27.610	—270	.827		P	—270	.179
—280	27.510	—265	.833		E	—265	.161
—278	27.410	—260	.839		R	—260	.146
—276	27.310				T		
—274	27.220				I		
—272	27.120				N		
—270	27.020				E		
—268	26.930				N		
—266	26.830				T		
—264	26.730						
—262	26.630						
—260	26.540						

12.21 SOLUBILITY IN WATER		12.22 SATURATED VAPOR PRESSURE		12.23 SATURATED VAPOR DENSITY		12.24 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	I	—290	2.640	—290	.02325	0	.504
	N	—288	3.006	—288	.02617	25	.513
	S	—286	3.412	—286	.02936	50	.522
	O	—284	3.861	—284	.03284	75	.532
	L	—282	4.355	—282	.03663	100	.541
	U	—280	4.898	—280	.04074	125	.551
	B	—278	5.494	—278	.04519	150	.561
	L	—276	6.146	—276	.05000	175	.572
	E	—274	6.858	—274	.05519	200	.582
		—272	7.633	—272	.06077	225	.593
		—270	8.474	—270	.06676	250	.604
		—268	9.387	—268	.07318	275	.615
		—266	10.370	—266	.08004	300	.626
		—264	11.440	—264	.08736	325	.638
		—262	12.590	—262	.09516	350	.650
		—260	13.820	—260	.10350	375	.662
		—258	15.150	—258	.11230	400	.674
		—256	16.570	—256	.12160	425	.686
		—254	18.100	—254	.13150	450	.699
		—252	19.720	—252	.14190	475	.712
		—250	21.460	—250	.15290	500	.724
		—248	23.310	—248	.16450	525	.738
		—246	25.270	—246	.17670	550	.751
		—244	27.360	—244	.18960	575	.765
		—242	29.580	—242	.20300	600	.778
		—240	31.920	—240	.21710		

Baxter Healthcare Corporation
Burdick & Jackson Division
1953 South Harvey Street
Muskegon, MI 49442 USA

information/emergency telephone no. 616.726.3171
chemtrec telephone no. 800.424.9300
canadian emergency telephone no. 613.996.6666

MATERIAL SAFETY DATA SHEET

METHANOL

I. Identification

chemical name: Methanol — molecular weight: 32.04
chemical family: Alcohol — formula: CH_4O
synonyms: Carbinol, Methyl Alcohol, Wood Alcohol
DOT proper shipping name: Methyl Alcohol or Methanol
DOT hazard class: Flammable Liquid
DOT identification no.: UN1230 — CAS no.: 67-56-1

II. Physical and Chemical Data

boiling point, 760mm Hg: 64.7°C — freezing point: -97.7°C — evaporation rate: (BuAc=1) ca 5
vapor pressure at 20°C: 97 mm Hg — vapor density (air=1): 1.11 — solubility in water: @ 20°C complete
% volatiles by volume: ca 100 — specific gravity (H_2O=1): @ 20°C 0.792 — stability: Stable
hazardous polymerization: Not expected to occur.
appearance and odor: A clear, colorless liquid with a slight alcoholic odor.
conditions to avoid: Heat, sparks, open flame, open containers, and poor ventilation.
materials to avoid: Strong oxidizing agents and reactive metals which will displace hydrogen.
hazardous decomposition products: Incomplete combustion can generate carbon monoxide and other toxic vapors such as formaldehyde.

III. Fire and Explosion Hazard Data

flash point, (test method): 12°C (Tag closed cup) — auto ignition temperature: 385°C
flammable limits in air % by volume: lower limit: 6.7 — upper limit: 36.5
unusual fire and explosion hazards: May burn with an invisible flame. Mixtures with water as low as 21% by volume are still flammable (flash point below 37.8°C). Under some circumstances can corrode certain metals, including aluminum and zinc, and generate hydrogen gas.
extinguishing media: Carbon dioxide, dry chemical, alcohol foam, water mist or fog.
special fire fighting procedures: Wear full protective clothing and self-contained breathing apparatus. Heat will build pressure and may rupture closed storage containers. Keep fire-exposed containers cool with water spray.

IV. Hazardous Components

	%	TLV	CAS no.
Methanol	ca 100	200 ppm (skin)	67-56-1

Burdick & Jackson's Disclaimer: The information and recommendations presented in this Material Safety Data Sheet are based on sources believed to be reliable on the date hereof. Burdick & Jackson makes no representation on its completeness or accuracy. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. No representations or warranties, either express or implied, of merchantability or fitness for a particular purpose or of any other nature are made with respect to the information provided in this Material Safety Data Sheet or to the product to which such information refers. Burdick & Jackson neither assumes nor authorizes any other person to assume for it, any other or additional liability or responsibility resulting from the use of, or reliance upon, this information.

V. Health Hazards

Occupational Exposure Limits

OSHA	TWA	- 200 ppm
	STEL	- 250 ppm
	Ceiling	- not listed
ACGIH	TLV-TWA	- 200 ppm
	TLV-STEL	- 250 ppm
NIOSH	10 hour TWA	- 200 ppm
	15 min Ceiling	- 800 ppm

Concentration Immediately Dangerous to Health

OSHA/NIOSH	25,000 ppm

Odor Threshold

NSC	10 ppm
NIOSH	2000 ppm

Carcinogenic Data

Methanol is not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Primary Routes of Entry

Methanol may exert its effects through inhalation, skin absorption, and ingestion.

Industrial Exposure: Route of Exposure/Signs and Symptoms

Inhalation: Exposure can cause drowsiness and intoxication, headache, visual disturbance leading to blindness, coughing and shortness of breath, collapse and death at high concentrations.

Eye Contact: Liquid can cause moderate burning, watering, swelling, and redness; high vapor concentration (greater than 200 ppm) may cause same symptoms.

Skin Contact: This substance may be absorbed through intact skin and produce toxic effects. Extensive, repeated and/or prolonged skin contact can cause burning, itching, redness, or blisters.

Ingestion: Causes burning of the gastrointestinal tract and toxic effects. Swallowing more than 2 ounces of methanol can cause death.

Effects of Overexposure

Mild poisoning is characterized by fatigue, nausea, headache, and delayed visual blurring. Moderate intoxication results in severe depression. Temporary or permanent blindness may follow in 2-6 days. In severe poisoning, symptoms progress to rapid, shallow respiration, cyanosis, coma, hypotension, dilated pupils, and visual disturbance. Death may result from respiratory failure.

Medical Condition Aggravated by Exposure

Preclude from exposure those individuals with diseases of eyes, liver, kidneys, and lungs.

Emergency First Aid

Inhalation: Immediately remove to fresh air. If not breathing, administer mouth-to-mouth rescue breathing. If there is no pulse administer cardiopulmonary resuscitation (CPR). Contact physician immediately.

Eye Contact: Rinse with copious amounts of water for at least 15 minutes. Get emergency medical assistance.

Skin Contact: Flush thoroughly for at least 15 minutes. Wash affected skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before re-use, and discard contaminated shoes. Get emergency medical assistance.

Ingestion: Call local Poison Control Center for assistance. Contact physician immediately. Never induce vomiting or give anything by mouth to a victim unconscious or having convulsions.

Note to Physician

In case of ingestion or massive inhalation, observe victim as an inpatient because slow metabolism causes a latent period of 24 hours between exposure and acidosis and blindness.

VI. Safety Measures and Equipment

Ventilation: Adequate ventilation is required to protect personnel from exposure to chemical vapors exceeding the PEL and to minimize fire hazards. The choice of ventilation equipment, either local or general, will depend on the conditions of use, quantity of material, and other operating parameters.

Respiratory: Use approved respirator equipment. Follow NIOSH and equipment manufacturer's recommendations to determine appropriate equipment (air-purifying, air-supplied, or self-contained breathing apparatus).

Eyes: Safety glasses are considered minimum protection. Goggles or face shield may be necessary depending on quantity of material and conditions of use.

Skin: Protective gloves and clothing are recommended. The choice of material must be based on chemical resistance and other user requirements. Generally, neoprene, nitrile rubber, or rubber offer acceptable chemical resistance. Individuals who are acutely and specifically sensitive to methanol may require additional protective equipment.

Storage:	Methanol should be protected from temperature extremes and direct sunlight. Proper storage of methanol must be determined based on other materials stored and their hazards and potential chemical incompatibility. In general, methanol should be stored in an acceptably protected and secure flammable liquid storage room.
Other:	Emergency eye wash fountains and safety showers should be available in the vicinity of any potential exposure. Ground and bond metal containers to minimize static sparks.

VII. Spill and Disposal Data

Spill Control:	Protect from ignition. Wear protective clothing and use approved respirator equipment. Absorb spilled material in an absorbent recommended for solvent spills and remove to a safe location for disposal by approved methods. If released to the environment, comply with all regulatory notification requirements. CERCLA Reportable Quantity — 5,000 lbs.
Waste Disposal:	Dispose of methanol as an EPA hazardous waste. Contact state environmental agency for listing of licensed hazardous waste disposal facilities and applicable regulations. Hazardous waste numbers: U154(Ignitable); D001(Ignitable).

VIII. SARA/Title III Data

Hazard Classification	
Immediate Health	Yes
Delayed Health	Yes
Fire	Yes
Sudden Release	No
Reactive	No

Chemical Listings	
Extremely Hazardous Substances	No
CERCLA Hazardous Substances	Yes
Toxic Chemicals	Yes

Methanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40CFR Part 372. This product does not contain any other toxic chemical above 1% concentration or a carcinogen above 0.1% concentration.

Revision Date: July, 1989

KEY

ca	Approximately
na	Not applicable
C	Ceiling
STEL	Short Term Exposure Level (15 minutes)
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hours)
BuAc	Butyl Acetate

CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
NSC	National Safety Council ("Fundamentals of Industrial Hygiene," 3rd Ed., 1988)

MATERIAL SAFETY DATA SHEET

CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N. Y. 12305

Phone: (518) 385-4085 DIAL COM: 8*235-4085

MATERIALS INFORMATION SERVICES

NO. 43

TRISODIUM PHOSPHATE DODECAHYDRATE

Date November 1978

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: **TRISODIUM PHOSPHATE DODECAHYDRATE**

DESCRIPTION: Crystallizes from water as $Na_3PO_4.12H_2O$ and can exist as several hydrate forms, depending on processing, and as the anhydrous salt.

OTHER DESIGNATIONS: TSP, Trisodium Orthophosphate, Sodium Phosphate, Tribasic, Teriary Sodium Phosphate, GE Material D4K1, ASTM D538, CAS# 007 601 549

MANUFACTURER: Available from several suppliers, including FMC Corporation, Monsanto Co., Stauffer Chemical Co., and Olin Corp.

SECTION II. INGREDIENTS AND HAZARDS	%	HAZARD DATA
Trisodium Phosphate (as $Na_3PO_4.12H_2O$)	>97	No TLV established*
*Under OSHA inert dust limits it can be assumed that airborne particulate, not otherwise controlled, is limited to a maximum of 5 mg/kg of respirable dust; however, this level may not be adequate to prevent irritation with this material.		($Na_3PO_4.12H_2O$) Rat, Oral LD_{50} 7400 mg/kg

SECTION III. PHYSICAL DATA

Boiling point ——— -11 H_2O at 100 C (decomposes)

Melting point, deg C — >73.3 (dec)

Solubility, g/100g H_2O:

at 0 C ——— 1.5

at 15 C ——— 28.3

at 70 C ——— 157

Specific gravity (20/4 C) ——— 1.62

pH of 1% water solution at 25 C – ca 12

Molecular weight ——— 380.1

Appearance & Odor: White or colorless crystalline solid (also as powder flake, granules, etc.). No odor.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	LOWER	UPPER
None	None	None		

Extinguishing Media: Use that which is appropriate to the surrounding fire; this material is non-combustible.

In a fire situation at high temperature phosphates can emit highly toxic phosphorus oxide fumes. Firefighters should use self-contained breathing apparatus.

SECTION V. REACTIVITY DATA

This material is a stable alkaline solid at room temperature. It does not undergo hazardous polymerization.

It is incompatible with acidic materials.

Copyright © — 1979 By General Electric Company

ECTION VI. HEALTH HAZARD INFORMATION

NO. 43

TLV None established (See Sect II).

This alkaline material will cause irritation to the respiratory tract if inhaled as a dust or as a solution mist. Prolonged or repeated skin contact will irritate the skin. Eye contact will irritate and can damage the eyes (alkaline attack). This material is low in toxicity by ingestion, but its alkaline nature will irritate, injure the digestive tract. (Trisodium phosphate is used as a food additive; but it must be reduced in alkalinity before being taken into the body.)

FIRST AID:

Eye contact: Promptly flush with plenty of water for 15 minutes. Get medical help.

Skin contact: Wash well with soap and water; rinse well with water. If irritation persists, get medical help.

Inhalation: Remove to fresh air. Get medical help if irritation persists.

Ingestion: Give 1-2 glasses of water or milk to drink to dilute; then give fruit juice or diluted vinegar to drink. Do not induce vomiting! Immediately contact a physician.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

For large spills, notify safety personnel. Clean-up personnel should use protection against contact or inhalation of dust or mist. Scoop up spill for recovery or disposal and place in a container with a lid. Flush residues to the sewer with plenty of water.

DISPOSAL: Scrap material can be used for neutralizing acidic wastes, or it can be buried in an approved manner in an approved landfill. Small amounts can be flushed to the sewer if regulations permit. Follow Federal, State and local regulations for disposal.

ECTION VIII. SPECIAL PROTECTION INFORMATION

Provide general ventilation to the workplace; if dusting conditions occur, local exhaust ventilation will be needed and a NIOSH approved dust respirator may be required. The use of rubber or plastic gloves and chemical safety glasses with side shields is recommended for handling this material. An apron may also be desirable to prevent contact with clothing, especially where solutions are involved.

Provide eyewash station near to the workplace where this material is used; a safety shower may also be needed where large amounts of solution are prepared or used.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store this material in tightly sealed containers in a clean, dry, ventilated area. Prevent physical damage to containers.

Avoid contact with the body and inhalation of dust.

Note that anhydrous trisodium phosphate and lower hydrates are more alkaline <u>on a weight basis</u> than $Na_3PO_4 \cdot 12H_2O$.

DATA SOURCE(S) CODE: 1,2,4-7,12,15

Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore although reasonable care has been taken in the preparation of such information, General Electric Company extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

APPROVALS:	MIS, CRD	J. M. Dixon
	Industrial Hygiene and Safety	[signature]
	Corporate Medical Staff	George F. Mattson MD

Attachment 2

Decontamination and Demolition Safety Procedures

To be Provided by Subcontractor

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
FACILITY ASSESSMENT STREAMLINING TEAM (FAST)
RECORDS REVIEW CHECKLIST

1. General Site Information:

FAST #: 140	**Site Name**: Hughes Training	**EPA ID:** CAD008351827
Site Address: 1200 East San Bernardino Road (address during operation)		
City West Covina	**State** CA	**Zip** 91790
Other Site Names: Formerly Honeywell Incorporated		**Total Acres:** 21.2

2. Review Information and Conclusions:

File Reviewer Name: Laurie Racca	**Date(s) of review**: June 1 and 4, 2009	**Regional Office of Review** : Files Present: Yes ☐ * No ☐	*** If No files. Where are they?**

List Type of File (s) reviewed (i.e.: permitting, corrective action, enforcement, other)

1 Reviewed the Corrective Action and HWMP E'Stor Information. A Copy of the RFA document dated June 2008 has been uploaded and was reviewed. The recommendation was that no further investigation is required at this time.

2.

3.

Reviewer Recommendation:	**FAST Recommendation:**
RFA Done: Yes ☒ No ☐ RFA Needed: Yes ☐ No ☒	RFA Needed: Yes ☐ No ☒ PR/RG
Letter to Facility Needed: Yes ☐ No ☒	Letter to Facility Needed: Yes ☐ No ☒
In Corrective Action – FAST Action Necessary: Yes ☐ No ☒	In Corrective Action – FAST Action Necessary: Yes ☐ No ☒

3. EnviroStor Information:

Permit Lead: Ruth Cayabyab **Permit Supervisor**: Beverly Rikala **CA Lead:** Ruth Cayabyab **CA Sup:**	**Site Facility Type:** Historical permit **Clean-up Status:** Clean closed	**CA Lead/Sup. Contacted**: Yes ☐ No ☒ Contact Phone: Date: Contacted:

CA Lead Comments:

Contaminants of Concern:

FACILITY ASSESSMENT STREAMLINING TEAM (FAST)
RECORDS REVIEW CHECKLIST (continued)

Site Name: Hughes Training	**FAST #:** 140

4. Additional Facility Information:

<table>
<tr><td colspan="2">Name of Owner
from Part A:
Address:
City: State: Zip:</td><td colspan="2">Name of Operator
from Part A:

Address:

City: State: Zip:</td></tr>
<tr><td colspan="2">Name of Current Landowner:

Address:

City: State: Zip:</td><td colspan="2">Name of Current Operator:

Address:

City: State: Zip:</td></tr>
<tr><td colspan="2">Current Land Use: Check all that apply

Agriculture: Residential:

Commercial/Office: Industrial:
Other:</td><td colspan="2">Previous Land Use (if known): Check all that apply

Agriculture: Residential:

Commercial/Office: Industrial:

Other:</td></tr>
<tr><td>Site Acreage:</td><td>No. of Buildings:

Date of Construction:</td><td colspan="2">Sewer/septic system:</td></tr>
<tr><td colspan="2">Wells: Yes No

Type & #:

1.

2.

3.</td><td>Groundwater Information:

Depth to GW (ft):

Elevation (msl):
Direction:
Gradient (ft/ft):</td><td>Drinking Water Source:</td></tr>
<tr><td colspan="4">Basic Geology Summary:</td></tr>
<tr><td colspan="4">Adjacent Land Use:

North:

South:

East:

West:</td></tr>
</table>

FACILITY ASSESSMENT STREAMLINING TEAM (FAST)
RECORDS REVIEW CHECKLIST (continued)

5. Documents Reviewed: (include copies of Executive Summary, Conclusions, or vital information deemed necessary)

Examples: Part A and B Applications, Permits, RFA, EPA Preliminary Assessments, EPA Preliminary Assessment Plus, Closure Plans, DTSC Closure Approval Letters and Certification Letters, Phase 1 ESAs, etc.

Title: Resource Conservation and Recovery Act Facility Assessment, Hughes Training, Incorporated (formerly Honeywell, Incorporated) EPA ID Number CAD008351827

Date: June 26, 2008 **Author:** Ruth Cayabyab, DTSC Cal Center

General Comment:
DTSC completed an RFA of the facility in 2008. Currently, the site is not managing hazardous waste and has been converted to a place of worship, listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street. The RFA concluded that the potential for release from the HWSA, Degreaser/Clarifier Area, and Above Ground Elementary Neutralization Unit to the soil, air and groundwater is low, no further investigation is warranted at this time for the HTI facility.

Title: General Comment:

Date: Author:

Title: General Comment:

Date: Author:

Title: General Comment:

Date: Author:

Title: General Comment:

Date: Author:

Title: General Comment:

Date: Author:

Title: General Comment:

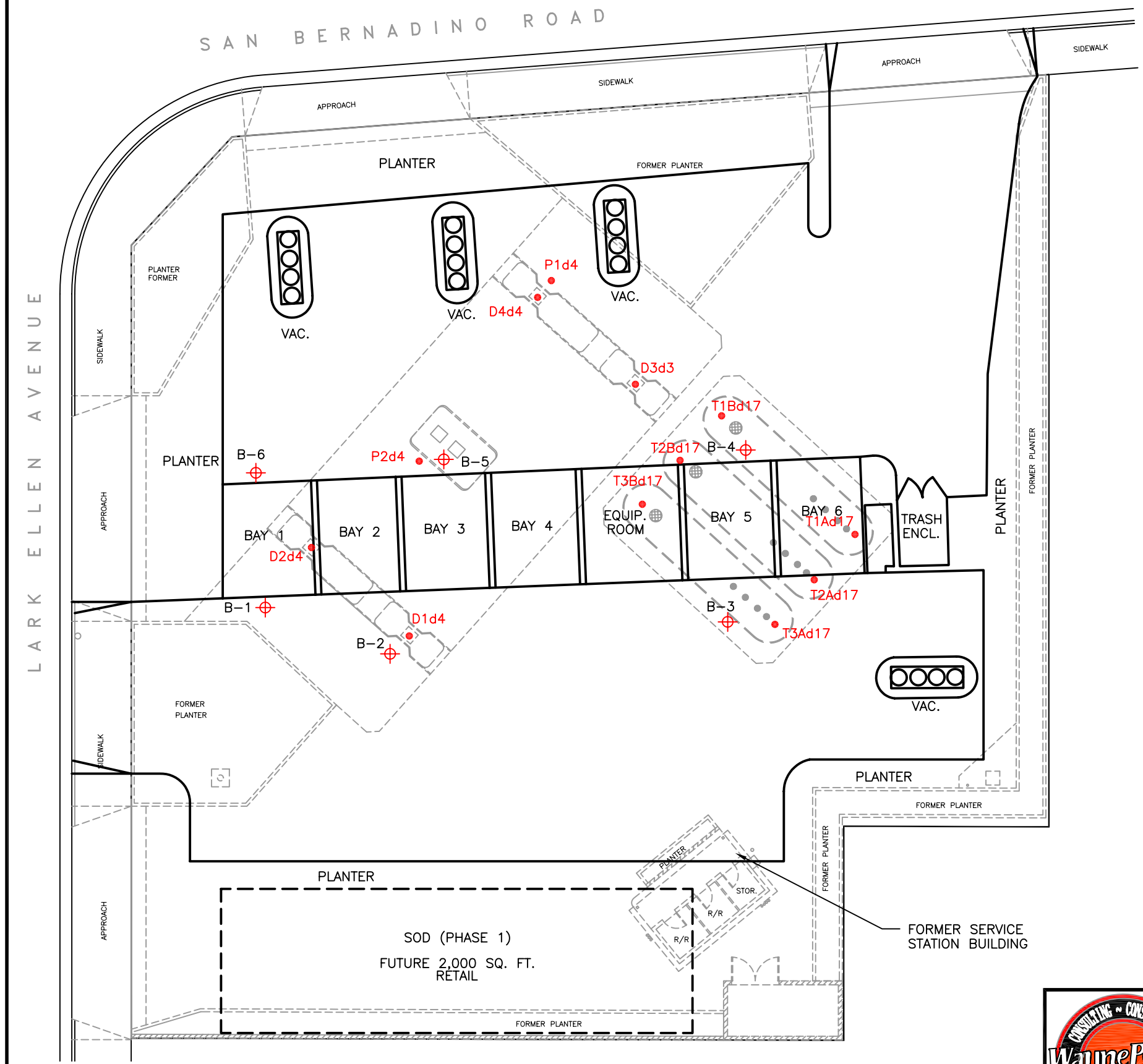
Date: Author:

FACILITY ASSESSMENT STREAMLINING TEAM (FAST)

RECORDS REVIEW CHECKLIST (continued)

Site Name:	FAST #:

6. Explanations: Reference Section Numbers



N
W E
S

LEGEND

B-1 SOIL BORING

D1d4 SOIL SAMPLE

FORMER UNDERGROUND STORAGE TANK

FORMER DISPENSER ISLAND

PROPOSED BUILDING AND LANDSCAPING

0 5 10 15

GRAPHIC SCALE

DATE DRAWN 03/31/05	PLOT PLAN		FIGURE NO. 2
DRAWN BY	FORMER SHELL SERVICE STATION 1274 W. SAN BERNARDINO RD. COVINA, CA		
CAD FILE 04142PP			PROJECT NO. 04.142

012247-012368
CORR/NFA
C 000809449

L 000801747

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

July 20, 2015

Mr. Mark Landin
Southern California Edison
Hazardous Materials, CEH&S
1218 South Fifth Avenue
Monrovia, California 91016-3805

UNDERGROUND STORAGE TANK PROGRAM – CASE REFERRAL RESPONSE
SOUTHERN CALIFORNIA EDISON
1551 SAN BERNARDINO ROAD, COVINA, CALIFORNIA
(GLOBAL ID NO.: T10000006796)

Dear Mr. Landin:

On May 4, 2015, the County of Los Angeles Department of Public Works (LADPW) transmitted this case to our agency due to concerns regarding soil and groundwater impacts from the subject site (Site). The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within the Los Angeles and Ventura counties. As such, we are the lead regulatory agency for overseeing corrective action (assessment and/or monitoring activities) and cleanup of releases from leaking underground storage tank (UST) systems at the Site.

We have received the following documents for the Site:

- "Site Assessment Report" dated July 15, 2008, by Southern California Edison Company, Engineering and Technical Services, Civil/Structural/Geotechnical Group (SCE)
- "Closure/Site Assessment Report" dated May 4, 2015 by LADPW

Based on our review of the submitted documents, we have the following comments:

- Reportedly, one 1,000-gallon UST used to store diesel fuel was removed from the Site in 2004. The tank was located approximately 8 feet below ground surface (bgs) and was used to store fuel for two emergency generators. It was assumed that the associated piping was abandoned in-place. SCE performed a site assessment in 2008 which included advancing a total of 11 soil borings, among which two were beneath the former UST area extending to a maximum depth of 41 feet bgs and nine were beneath the associated piping extending to maximum depths of 20 feet bgs. Soil samples were collected at five-foot intervals.

- Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH_G) and diesel (TPH_D) by EPA Method 8015B, and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME), by EPA Method 8260B.

- The laboratory reported only TPH_D and benzene in samples collected beneath the former UST area at concentrations of 26 milligrams per kilogram (mg/kg) (TPH_D) and 3.4 micrograms per kilogram (µg/kg) (benzene), respectively. No other chemical constituents of concern were detected above the laboratory reporting limits in any other sample collected.

- The depth to groundwater is anticipated to be approximately 120 feet bgs, based on measurements of groundwater at a Regional Board UST case (San Luis Arco, located at 550 Glendora Avenue, West Covina, case no. I-14064) approximately 1.7 miles to the south.

Based on the information available to us, Regional Board staff determined that residual concentrations of fuel constituents pose a low threat to human health, and soil and groundwater quality beneath the Site. Therefore, no further action is required to pursue any further soil and/or groundwater investigation at the Site. No Regional Board case for the Site will be opened at this time.

If you have any questions, please contact Mr. Gregg Kwey at (213) 576-6702 or email him at gregg.kwey@waterboards.ca.gov

Sincerely,

Yue Rong, Ph. D.
Program Manager
Underground Storage Tank Program

cc: Mr. Tim Smith, Los Angeles County, Department of Public Works

STATE OF CALIFORNIA PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500

SF

cc: RW Conlon
DC Elston
JK Fickerson
MM Oshiro
B Rhoden (We did it, Brian)
L.A. Co

FYI! DCE, as indicated by phone mail, here's a copy of the closure letter on this surplus (at least I think so) site.
Thanks!
Mark P
10-21-96

October 11, 1996

Mr. Mark J. Passarini
Texaco Refining and Marketing Inc.
10 Universal City Plaza
Universal City, CA 91608

UNDERGROUND STORAGE TANK CASE CLOSURE
FORMER TEXACO STATION 61-106-0191
133 SAN BERNARDINO ROAD, COVINA (I-14823)

Dear Mr. Passarini,

This letter confirms the completion of the site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location.

Based on the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

If you have groundwater monitoring wells or vapor extraction wells at the subject property, you must comply with the following:

1. All wells must be located and properly abandoned.

2. Well abandonment permits must be obtained from Los Angeles County Department of Health Services, and all other necessary permits must be obtained from the appropriate agencies prior to the start of work.

3. You must submit a report on the abandonment of the wells to this office by **November 8, 1996**. This report must include, at a minimum, a site map, a description of the well abandonment process, and copies of all signed permits.

Please contact Nhan Bao at (213) 266-7561, if you have any questions regarding this matter.

Sincerely,

ROBERT P. GHIRELLI, D. Env.
Executive Officer

DAVID G. DEANER
Acting Assistant Executive Officer
Underground Tanks Section

cc: Mr. Toru Okamoto, State Water Resources Control Board, Underground Storage Tank Cleanup Fund
Mr. Allan Patton, State Water Resources Control Board, Underground Storage Tank Program
Mr. William Goth, Underground Storage Tank Program, Ventura County Environmental Health Division
Mr. Alfredo Cardenas, Water Replenishment District of Southern California
Mr. Carl Sjoberg, Los Angeles County Department of Public Works, Environmental Programs Division
Mr. Al Bragg, Los Angeles County Department of Health Services, Water Well Permits
Mr. Jeffrey R. Maxwell, Miller Brooks Environmental, Inc.

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100

HARRY W. STONE, Director

ADDRESS ALL CORRESPONDENCE TO
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE:
EP-1
012012-012095

December 23, 1997

Mr. Mohammad Akhondi
Vincent Arco
1680 N. San Bernardino Rd.
Covina, CA 91722

Dear Mr. Akhondi:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
SITE ASSESSMENT/REMEDIAL ACTION PLAN CLOSURE CERTIFICATION
FACILITY LOCATION: 1680 N. SAN BERNARDINO ROAD, COVINA (6B)
CLOSURE APPLICATION NUMBER: 184545

This office has reviewed the final report dated December 1997 required as a part of the subject site assessment/remedial action plan. Based on the information submitted, this letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings or site usage.

If you have any questions regarding this matter, please contact Mr. David Esfandi of this office at (626) 458-3510, Monday through Thursday, 7:00 a.m. to 5:30 p.m.

Very truly yours,

HARRY W. STONE
Director of Public Works

M. D. Esf

for CARL W. SJOBERG
Chief, Industrial Waste Planning & Control
Environmental Programs Division

DE:nm
MIC9\AKHONDI
C207497
C207574
cc: Mr. Jim Kuykendall, California Regional Water Quality Control Board, Los Angeles Region
Mrs. Rita LaVelle, Nutech Enterprises, Inc.

APPENDIX D
Prior Reports

Resource Conservation and Recovery Act Facility Assessment
June 26, 2008

Hughes Training, Incorporated
(formerly Honeywell, Incorporated)
EPA ID Number CAD008351827

Address During Operation:
1200 East San Bernardino Road
West Covina, California 91790
Lat 34.083677, Long -117.917728
Los Angeles County

Current Address:
1211 East Badillo Street, West Covina, California 91790

Prepared By:

Ruth Cayabyab
Hazardous Substances Engineer
State of California Environmental Protection Agency
Department of Toxic Substances Control
Northern California Permitting and Corrective Action Branch
8800 Cal Center Drive
Sacramento, California 95826

Table of Contents

1 Executive Summary 4

2.1 Purpose of the RCRA Facility Assessment 6

2.1.1 Information Collection 6

2.1.2 Historical Contact 6

3 Site Description 8

3.1 Site Location 8

3.1.1 From 1963 to 1994 8

3.1.2 From 1995 to Present 9

3.2 Owner/Operator History 9

3.3 Facility Processes and Waste Management 10

3.3.1 Historical 10

3.3.2 Facility Closure 11

3.3.3 Current 13

4 Regulatory Involvement and Voluntary Actions 14

4.1 USEPA and State Permit Status 14

4.2 USEPA, DTSC, and RWQCB Enforcement Actions 14

4.3 Voluntary Actions 14

5 Environmental Setting 15

5.1 Topography 15

5.2 Hydrogeology 15

5.3 Groundwater 16

6 Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) 17
6.1 SWMU 1 – Hazardous Waste Storage Area (HWSA)..... 17
6.1.1 Size and Dimensions..... 17
6.1.2 Design Capacity..... 18
6.1.3 Information Summary..... 18
6.1.4 Environmental Factors..... 18
6.1.5 Conclusions..... 18
6.2 AOC 1 – Degreaser/Clarifier Area 19
6.2.1 Information Summary..... 19
6.2.2 Environmental Factors..... 19
6.2.3 Conclusions..... 19
6.3 AOC 2 - Above Ground Elementary Neutralization Unit 19
7.1 Purpose of VSI..... 20
8 Suggestions for Further Action..... 21
9 References..... 22

1 Executive Summary

This Resource Conservation and Recovery Act Facility Assessment is for the Facility located at 1200 East San Bernardino Drive, West Covina, California 91790 in Los Angeles County. The Facility was owned and operated by Honeywell, Incorporated - Training and Control Systems Division (Honeywell) from 1963 to 1988.

Honeywell operated from 1963 to 1980 without a permit because their operations did not generate hazardous waste. A request to be registered as a Hazardous Waste Generator was submitted to United States Environmental Protection Agency (USEPA) on November 20, 1980. After July 21, 1983, the Facility operated under California's Phase IIA interim authority status by Department of Health Services and Department of Toxic Substances Control (DTSC).

The Facility was then owned by Hughes Aircraft Company from 1989 to 1994, and operated by its subsidiaries:

- Hughes Rediffusion Simulation, Incorporated (estimated early 1989),
- Hughes Simulation Systems, Incorporated (from 1989 to 1991), and
- Hughes Training, Incorporated (HTI) (from 1991 to 1994).

These companies engaged in the manufacture and assembly of flight simulators and electronic components, which generated wastes which were not treated but stored and sent off-site to permitted facilities for recycling, treatment, or disposal.

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines. The types and quantities of hazardous wastes that were stored at the HWSA included the following: solvents, machine oils and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, adhesives, and empty containers.

The HWSA was located in a secured area approximately 135 feet from the south boundary within the perimeter of HTI. The HWSA dimensions were 28 feet by 33 feet, and the total area of the HWSA was approximately 930 square feet. The HWSA was divided into six (6) bays to provide segregated compatible chemical segregation. The combined design capacity was 4,180 gallons (or seventy-six (76) 55-gallon containers).

In March 1993, operations ceased, and facility buildings were emptied. For closure of the HWSA, HTI sampled and analyzed soils underlying the HWSA, the main manufacturing building, and background locations at the site. Soil and concrete samples were collected September 29, 1994, and a soil-gas survey was conducted September 26, 27, and 29, 1994.

Results from soil, concrete, and soil-gas sampling in September 1994 suggested that operations at the HWSA did not release chemicals into underlying soil – concentrations that were detected were below background or below USEPA Region IX's Preliminary Remediation Goals (PRGs) for residential soil.

The soil-gas sampling in September 1994 also indicated that the interior of the former manufacturing building (non-permitted area) exhibited a VOC pattern which was likely to be associated with discharge from the Degreaser/Clarifier Area. However, the concentrations that were detected were below USEPA Region IX's PRGs for residential soil.

Although a variance was requested for an Above Ground Elementary Neutralization Unit, HTI claims they never treated hazardous waste. Furthermore, DTSC's files do not show a variance was issued to HTI or its predecessors.

HTI submitted a closure report for the HWSA on November 22-23, 1994 to DTSC. On November 23, 1994, DTSC determined the closure report met the requirements of the November 18, 1994 amended HWSA closure plan, and consequently decided the HWSA (and thus, the facility) was clean closed. Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility.

Currently, the site is not managing hazardous waste and has been converted to a place of worship, listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street.

Since the potential for release from the HWSA, Degreaser/Clarifier Area, and Above Ground Elementary Neutralization Unit to the soil, air and groundwater is low, no further investigation is warranted at this time for the HTI facility.

2 Introduction

2.1 Purpose of the RCRA Facility Assessment

The Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) is the first step of the corrective action program. The purpose of the RFA is to: 1) identify and gather information of releases at the RCRA facility; 2) evaluate solid waste management areas (SWMUs) and other areas of concern (AOCs) for releases to all media; 3) make preliminary determinations regarding releases of concern and the need for further actions and interim measures at the facility; and 4) screen for further investigation those SWMUs which pose a threat to human health or the environment.

2.1.1 Information Collection

A preliminary review was completed by obtaining information from the following sources:

- DTSC, Region 3, 1011 North Grandview Avenue, Glendale, CA 91201-2205
- DTSC Hazardous Waste Permitting Database
- Environmental Protection Agency's Envirofacts Data Warehouse
- Los Angeles County Office of the Assessor Property Assessment Information System

Preliminary Review: November 26, 2007 – December 21, 2007

2.1.2 Historical Contact

Facility Name, Operator, Owner, and Landowner:	Hughes Training, Incorporated a subsidiary of Hughes Aerospace and Electronics Company's Systems Sector
Facility EPA ID Number:	CAD008351827
Facility Location Address:	1200 East San Bernardino Road West Covina, California 91790 Los Angeles County
Facility Mailing Address:	P.O. Box 6171 Arlington, Texas 76005-6171 Attn: Mr. Joe Teel Mail Station: 303
Facility Contact:	Mr. Joe Teel, Quality Assurance / Safety, Health, and Environmental Affairs (SHEA) Principal Engineer P.O. Box 6171 Arlington, Texas 76005-6171 Tel: (817) 695-2145

2.1.3 Current Contact

Facility Name:	Faith Community Church
Facility Operator:	None; Site is not an operating hazardous waste treatment, storage, or disposal facility
Facility EPA ID Number:	None; Site is not an operating hazardous waste treatment, storage, or disposal facility
Facility Location Address:	1211 East Badillo Street West Covina, California 91790 Los Angeles County
Facility Mailing Address:	Faith Community Church 1211 East Badillo Street West Covina, California 91790 Los Angeles County Attn: Dr. Jim Reeve
Facility Contact:	Dr. Jim Reeve, Senior Pastor 1211 East Badillo Street West Covina, CA 91790 Tel: (626) 858-8400 Fax: (626) 858-8412 Email: info@go2faith.com

DTSC contacted Faith Community Church via email and phone on December 3, 2007, and there was no response. A request for completion of a RFA Questionnaire was sent on February 22, 2008 via certified mail, with 60-days to provide information; however, there was no response as of April 11, 2008 (60 days after the letter) and as of the date of this RFA.

3 Site Description

3.1 Site Location

3.1.1 From 1963 to 1994

During operation from 1963 to 1994, the Facility was located at 1200 East San Bernardino Road, West Covina, California 91790 in Los Angeles County (see Attachment 1) (latitude +34.086667 degrees, and longitude -117.918333) (EPA, 2007).

The following was the Facility's assessor's block and lot number: 1 South, 10 West, Section 15 in portions of Lots 31 and 32 of the 576.5 acre tract known as W.R. Rowland Tract, in the Rancho La Puente, in the City of West Covina, in the County of Los Angeles, State of California, as per map recorded in Book 42 Page 45 of Miscellaneous Records, in the Office of the County Recorder of Lost Angeles County (DTSC, 1994e).

The site was approximately 21.2 acres. The site consisted of a Hazardous Waste Storage Area (HWSA) and a Main Building (non-permitted area). The Main Building, approximately 165,000 square feet, lay to the North of the HWSA (DTSC, 1994e). HTI occupied 826,400 square feet of parking, offices, and laboratories. At the height of operation, the facility used to employ approximately 1,200 people (McLaren / Hart, 1994a).

The site was bordered on the North by San Bernardino Road and Badillo Street to the South. Lark Ellen and Vincent Streets lay to the East and West, respectively (DTSC, 1994e).

The surrounding property was zoned Planned Industrial (I-P) for industrial manufacturing uses by the City of West Covina. Within a mile radius of the facility, commercial and industrial facilities consisted of a hospital, medical offices, grocery and convenience stores, mini mall and shopping centers, gas stations, restaurants, mini warehouse storage centers, research and development entities, and small and large industrial manufacturing operations. Institutional facilities consist of both public and private elementary schools, daycare facilities, a non-operational convalescent center and various denominations of churches. Residential land use consisted of both multi and single family units (DTSC, 1994e).

Historical documents showed the site was used for agricultural, commercial, residential, and industrial manufacturing operations. This data was derived from photographs, land deeds and property tile searches, property sale and transaction records, and site assessments (DTSC, 1994e).

3.1.2 From 1995 to Present

According to maps from the Los Angeles County Office of the Assessor, the location of the former HTI facility is now 1211 East Badillo Street, West Covina, California 91790. The property boundary remained the same; however, the Assessor's ID Number has changed to 8434-015-018 (corresponding to Map Book 8434, Page 015, Parcel 018). The property was recorded on May 3, 1995 (LAC, 2007).

Furthermore, the site has been converted to a place of worship and has been listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street (AAAG, 2007). The site is bordered on the North by San Bernardino Road and Badillo Street to the South. Lark Ellen and Vincent Streets lie to the East and West, respectively (LAC, 2007).

3.2 Owner/Operator History

The Facility was owned and operated by Honeywell, Incorporated (Honeywell) – Training and Control Systems Division (T&CSD) from 1963 to 1988. Honeywell operated from 1963 to 1980 without a permit because their operations did not generate hazardous waste. A request to be registered as a Hazardous Waste Generator was submitted to United States Environmental Protection Agency (USEPA) on November 20, 1980. On July 21, 1983, USEPA sent a letter to Honeywell that they are under California's Phase IIA interim authority status and that it was not necessary to send further correspondence to EPA. The state regulatory authority was Department of Health Services (DHS, predecessor to DTSC).

The Facility was purchased on January 1, 1989 by Hughes Aircraft Company (HAC) and operated by the following subsidiaries:

HAC Subsidiary Name	**Date of the Revised Part A Application**
Hughes Rediffusion Simulation, Incorporated – T&SCD	None. Operation est. early 1989. (OHM 1989 and DTSC 1994b).
Hughes Simulation Systems, Incorporated – T&CSD	May 1, 1989
Hughes Training, Incorporated (HTI)	July 11, 1991

HTI ceased its operations in 1993 and began closure of the facility in August 1994. DTSC determined clean closure of the facility on November 23, 1994 in a Closure Certification Acknowledgement letter to HTI (DTSC, 1994f and 2007).

Furthermore, the site has been converted to a place of worship and has been listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street (AAAG, 2007).

3.3 Facility Processes and Waste Management

3.3.1 Historical

Like its predecessors, HTI engaged in the manufacture and assembly of flight simulators and electronic components. The facility's primary business was the design, manufacture and testing of military weapon control systems and training devices. Product lines at the facility included flight simulator training equipment and electronic components for military hardware (DTSC, 1994b).

During the manufacture and assembly of flight simulators and electronic components, wastes were generated. These wastes included halogenated solvents used in degreasing operations, machine cutting fluids from machining metal parts, organic solvents and paints used for stenciling, painting and coating electronic components and metal parts; corrosive and reactive materials from the testing laboratories; rags, Q-tips, and Kim wipes containing trace halogenated solvents and oils generated during circuit board cleaning; and miscellaneous chemical and waste oils from machine, equipment, and facility maintenance operations (DTSC, 1994b).

HTI did not treat any of these wastes, but stored and sent them off-site to permitted facilities for recycling, treatment, or disposal (DTSC, 1994b).

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell, the previous property owner. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines (DTSC, 1994b,c).

The types and quantities of hazardous wastes that were stored at the HWSA are summarized in Attachment 2 and included the following (McLaren / Hart, 1994b):

- Solvents
- Machine oils and hydraulic oils
- Waste paints
- Polychlorinated biphenyl-containing light ballasts
- Spent batteries
- Acids
- Adhesives
- Empty containers

3.3.2 Facility Closure

On October 30, 1992, HTI submitted to DTSC a closure plan to close the HWSA. In March 1993, operations ceased, and facility buildings were emptied. The May 27, 1994 Draft HWSA Closure Plan was amended and approved by DTSC on November 18, 1994.

On August 8, 1994 during the extended public comment period, HTI notified DTSC that they will begin closure activities per the technically complete May 27, 1994 Draft HWSA Closure Plan but acknowledged they may need to conduct additional activities depending on the comments received.

Analytical Testing

HTI sampled and analyzed soils underlying the HWSA, the main manufacturing building, and background locations at the site. Soil samples were collected September 29, 1994.

DTSC also required HTI to perform soil-gas sampling of trichloroethene (TCE), trichloroethane (TCA), and other volatile organic compounds (VOCs). The soil-gas survey was conducted September 26, 27, and 29, 1994 by Environmental Support Technologies, Inc.

The objectives of conducting the soil and soil-gas sampling were to:

- assess whether hazardous waste management activities at the HWSA caused a release of hazardous constituents to underlying soils;
- identify potential vadose zone source areas of VOCs, including aromatic hydrocarbons and halogenated hydrocarbons;
- assess the potential lateral and limited vertical extent of VOCs in surficial soil; and
- assess the need for further investigation.

Soil Sampling Results

Nine soil samples were collected from within and surrounding the HWSA, at 0.5 feet below ground surface (bgs) (below the concrete/soil interface), and at 5 feet bgs. Three background soil samples were also collected at 0.5 feet bgs (below the asphalt/soil interface) and 3 feet bgs. Soil samples were analyzed for VOCs, metals, organochlorine pesticides and polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), and pH.

Analytical data from soil samples below the containment sumps in the HWSA were all non-detect for VOCs, TPH, PCBs, and pesticides. This suggested that operations at the HWSA did not release chemicals into underlying soil. Concentrations from pesticides detected in background samples were below the most current USEPA Region IX's Preliminary Remediation Goals (PRGs) [1] for residential soil (McLaren / Hart, 1994b).

[1] PRGs, as referenced throughout this document, are those available at the time of this RFA (currently those listed in October 2004).

Concrete Sampling Results

Eight core samples were also collected from the floor and the containment sumps of the HWSA building and analyzed for VOCs.

Analytical results from concrete samples in the HWSA detected concentrations of acetone, ethyl-benzene, total xylenes, and 4-methyl-2-pentanone. At the time of the 1994 Closure Report, 4-methyl-2-pentanone was "not an agency regulated chemical" (McLaren / Hart, 1994b). However, as of the date of this RFA, 4-methyl-2-pentanone is categorized as USEPA Hazardous Waste Number U161 (Ignitable).

Concentrations of these chemicals were well below USEPA Region IX's PRGs for residential soil. This data suggest that since none of these chemicals were detected in soil underlying the HWSA, then soil was not impacted by these or other chemicals (McLaren / Hart, 1994b).

Soil-Gas Sampling Results

A total of thirty-seven soil-gas sampling probes were installed at the site: thirty-one probes at 5 feet bgs, one probe at 7 feet bgs, and five probes at 15 feet bgs. Soil-gas samples were analyzed for VOCs, including aromatic and halogenated hydrocarbons.

Areas investigated in the soil-gas survey included:

- Former waste storage area;
- Two loading docks;
- Circuit card assembly and parts washing area;
- The 1,1,1- trichloroethane (TCA), dye-penetrant and paint shop operation areas;
- Machine Shop 1

PCE; TCE; 1,1,1,-TCA; and 1,1- dichloroethene (DCE) were the only VOCs detected in the soil-gas samples from HTI. Concentrations of these chemicals were below USEPA Region IX's PRGs for residential soil (McLaren / Hart, 1994b).

On September 29 1994, under DTSC's oversight, onsite analyses of samples taken at the HWSA indicated non-detects for the vapor phase VOCs. Therefore, on November 18, 1994, DTSC determined in a Response to Comments for the Draft Closure Plan that it was unlikely that soil matrix samples would reveal contamination, so groundwater monitoring would not be necessary (DTSC, 1994d).

Closure Verification

HTI submitted a closure report for the HWSA on November 22-23, 1994 to DTSC. On November 23, 1994, DTSC determined the closure report met the requirements of the November 18, 1994 amended HWSA closure plan, and consequently decided the HWSA (and thus, the facility) was clean closed (DTSC, 1994f and 2007). Results from soil, concrete, and soil-gas sampling in September 1994 suggested that operations at the HWSA did not release chemicals into underlying soil – concentrations that were detected were below background or below USEPA Region IX's PRGs for residential soil.

Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility. DTSC required that HTI develop a Sampling Analysis Plan of the former manufacturing area at the main building to ensure that hazardous waste releases, if any, were defined and remediated (California Code of Regulations, title 22, section 66260.10: Definition of Facility – "all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage, resource recovery, disposal or recycling of hazardous waste… for the purpose of implementing corrective action…") (DTSC, 1994d).

3.3.3 Current

The site has been converted to a place of worship and is not managing hazardous waste.

4 Regulatory Involvement and Voluntary Actions

4.1 USEPA and State Permit Status

The Facility operated from 1963 to 1980 without a permit because their operations did not generate hazardous waste. A request to be registered as a Hazardous Waste Generator was submitted to USEPA on November 20, 1980. After July 21, 1983, the Facility operated under California's Phase IIA interim authority status by DHS and DTSC.

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell, the previous property owner. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines (DTSC, 1994b,c).

Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility. DTSC required that HTI develop a Sampling Analysis Plan of the former manufacturing area at the main building to ensure that hazardous waste releases, if any, were defined and remediated (California Code of Regulations, title 22, section 66260.10: Definition of Facility – "all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage, resource recovery, disposal or recycling of hazardous waste… for the purpose of implementing corrective action…") (DTSC, 1994d).

DTSC determined the HWSA (and thus, the facility) clean closed on November 23, 1994 (DTSC, 1994f and 2007).

4.2 USEPA, DTSC, and RWQCB Enforcement Actions

The Facility has not been the subject of a USEPA, DTSC, or RWQCB enforcement action. There were no records of spills during the active life of the facility (DTSC, 1994e).

4.3 Voluntary Actions

HTI voluntarily closed its Hazardous Waste Storage Area in 1994.

5 Environmental Setting

5.1 Topography

The terrain of the HTI was relatively level at an approximate elevation of 440 feet above sea level (DTSC, 1994e). No surface waters, springs, or drinking water wells were located within a quarter mile of the facility boundaries (McLaren / Hart, 1994a).

HTI was located in the San Gabriel Valley in Los Angeles County, in the northeastern portion of the San Gabriel Basin with the San Gabriel Mountains forming the northern boundary of the basin. The major structural features in the basin included topographic highs (San Gabriel Mountains and southern hills) and topographic lows (San Gabriel Basin and subbasins) (McLaren / Hart, 1994a).

Major faults in the basin were the Sierra Madre Fault System, the Raymond Fault, the Lone Hill-Way Mill Fault, and the Workman Hill Fault. The closest faults to the HTI facility were about three miles away – the Walnut Creek Fault to the east and Duarte Fault to the north (McLaren / Hart, 1994a).

5.2 Hydrogeology

The San Gabriel Mountains and, to a lesser extent, the flanking low hills were the sources of the basin-fill sediments, which reached a maximum depth of approximately 4,000 feet in the southwestern portion of the basin. The basement rocks and most of the Tertiary rocks, relative to the alluvium, were considered non-water-bearing units (McLaren / Hart, 1994a).

The San Gabriel Basin was a broad piedmont plain with an average slope of about 65 feet per mile. The basin contained alluvium and assorted deposits of Recent and Pleistocene age (younger than 1.8 million years). The alluvial deposits were subdivided into four principal groups: recent alluvium, older alluvium, a transition zone between the older and younger alluvium, and the lower Pleistocene San Pedro formation. Alluvial deposits occurred at the ground surface to a depth of approximately 1,200 to 1,400 feet (McLaren / Hart, 1994a).

According to McLaren / Hart, the various alluvial materials in the basin may be considered as a single hydrogeologic unit of hydrogeologic properties that vary principally as a function of grain size. The hydraulic conductivity (and average grain size) decreases away from the upstream central portion of the basin, towards the southern and lateral margins of the basin. The estimated hydraulic conductivity near HTI was about 300 feet per day with some variation in local hydraulic conductivity because of lithologic variations (McLaren / Hart, 1994a).

5.3 Groundwater

The average depth to groundwater in wells within a two mile radius of HTI was approximately 184.7 feet. The general groundwater flow was northeast to southwest with a hydraulic gradient of about 0.002 to 0.005 feet per feet. Groundwater flow directions varied locally in response to groundwater pumping and recharge in spreading basins and unlined rivers or streams. Information gathered from the Department of Public Works indicated that there were no perched or semi-perched aquifers in this area due to lack of significant confining layers (McLaren / Hart, 1994a).

Groundwater contaminated with volatile organic compounds (VOCs) was first detected in 1979 in the San Gabriel Basin. Since 1980, many production wells throughout the basin have been sampled and analyzed for VOC contamination. Water quality data was available from 635 wells, including 352 production wells, located throughout the basin. In May 1984, four broad areas of contamination within the basin were listed as San Gabriel Areas 1 through 4 on the USEPA National Priorities List. According to USEPA, San Gabriel Basin Remedial Investigation Report dated 1992, the six organic chemical compounds most commonly occurring in the groundwater were: 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethene (1,1-DCE); 1,2-dichloroethane (1,2-DCA), trichloroethene (TCE), tetrachloroethene (PCE), and carbon tetrachloride (CTC). These compounds were used at HTI but as of 1994, there was no evidence to suggest these chemicals have impacted groundwater from HTI, which was outside the area of groundwater plumes identified by USEPA (McLaren / Hart, 1994a).

6 Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs)

6.1 SWMU 1 – Hazardous Waste Storage Area (HWSA)

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell, the previous property owner. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines (DTSC, 1994b,c).

The HWSA consisted of a reinforced concrete base with berms and sumps, masonry walls separating storage bays, a metal frame and roof, and chain-link fencing. There were six below-grade sumps designed to contain spills. The concrete floor and sumps were coated. The sump floor under the corrosive bay was lined with an acid-resistant polypropylene material (McLaren / Hart, 1994a).

6.1.1 Size and Dimensions

The HWSA was located in a secured area approximately 135 feet from the south boundary within the perimeter of HTI. The HWSA dimensions were 28 feet by 33 feet, and the total area of the HWSA was approximately 930 square feet. The concrete slab was approximately 6 inches thick (McLaren / Hart, 1994a).

The HWSA was divided into six (6) bays to provide segregated compatible chemical segregation:

- One bay, 33 feet by 16 feet, for storage of virgin oils;
- One bay 33 feet by 16 feet, for storage of waste oils, coolants, solvents, paint wastes, resins and PCB-containing light ballasts;
- Two bays, 33 feet by 5 feet each, for storage of flammable waste, resins, and PCB-containing light ballasts; and
- Two bays, 33 feet by 5 feet each, for storage of corrosives and spent batteries.

The first two bays were referred to as Section A, the next two as Section B, and the last two as Section C. The Section B and C bays were segregated by a masonry wall.

6.1.2 Design Capacity

The HWSA-permitted design capacity was as follows:

- Section A: fifty-two (52) 55-gallon containers
- Section B: twelve (12) 55-gallon containers
- Section C: twelve (12) 55-gallon containers.

The combined design capacity was 4,180 gallons (or seventy-six (76) 55-gallon containers).

6.1.3 Information Summary

Results from soil, concrete, and soil-gas sampling which were taken in September 1994 during the closure of the HWSA suggested that operations at the HWSA did not release chemicals into underlying soil – concentrations that were detected were below background or below USEPA Region IX's PRGs for residential soil.

DTSC geological staff also concluded from a September 29, 1994 site visit that it was unlikely that unintentional discharges occurred at the HWSA (DTSC, 1994c,d).

6.1.4 Environmental Factors

Based upon the September 1994 soil investigation and the results of the soil analysis, the potential for release from this SWMU to the soil, air and groundwater is low.

6.1.5 Conclusions

Based on the results of the September 1994 soil investigation, no further investigation is warranted at this time for the HWSA. DTSC determined the HWSA (and thus, the facility) clean closed on November 23, 1994 (DTSC, 1994f and 2007).

6.2 AOC 1 – Degreaser/Clarifier Area

This was not a permitted unit. Size, dimension, and design capacity are unknown. The area was mentioned in a Response to Comments (DTSC, 1994d - Appendix B). The clarifier area was also mentioned in a 1989 soil evaluation report (OHM, 1989).

6.2.1 Information Summary

In 1989, soil boring samples were taken from two clarifiers and a hazardous drum storage area (possibly the HWSA – but figures in this report do not match figures in 1994). These soil samples were evaluated for the presence of organic and inorganic contamination. Soil samples from the clarifier area did not indicate the presence of organic contaminants, and levels of inorganic constituents identified did not exceed regulatory limits (OHM, 1989).

In September 1994, soil-gas sampling analyses indicated that the interior of the former manufacturing building (non-permitted area) exhibited a VOC pattern which was likely to be associated with discharge from the degreasing/clarifier area (see Attachment 1). However, the concentrations that were detected were below USEPA Region IX's PRGs for residential soil.

Soil-gas samples were obtained at 5 feet bgs, 7 feet bgs, and 15 feet bgs in September 1994. Although it was DTSC's recommendation to obtain deeper vapor samples, there was no documentation that HTI implemented this suggestion and went beyond 15 feet bgs.

6.2.2 Environmental Factors

Based upon the 1989 and September 1994 soil investigations, the potential for release from this SWMU to the soil, air and groundwater is low.

6.2.3 Conclusions

Based on the results of the 1989 and September 1994 soil investigations, no further investigation is warranted at this time for AOC 1. DTSC determined the HWSA (and thus, the facility) clean closed on November 23, 1994 (DTSC, 1994f and 2007).

6.3 AOC 2 - Above Ground Elementary Neutralization Unit

A variance was requested on July 10, 1989 for the following: 1) on-site container storage for more than 90 days, and 2) an above-ground elementary neutralization unit for sulfuric acid. However, during a site visit on June 9, 1994, Mr. Teel of HTI said to DTSC staff that treatment of sulfuric acid was erroneously included in the variance application, and a certification indicating HTI never treated hazardous waste would be submitted (DTSC, 1994a).
There was no such certification found in the DTSC's files. However, DTSC's files do not show a variance was issued to HTI or its predecessors. No further investigation is warranted at this time for AOC 2.

7 Visual Site Inspection (VSI)

7.1 Purpose of VSI

The purpose of any VSI is twofold: 1) The identification of SWMUs and AOCs, and 2) the collection of visual evidence of releases at the facility.

Based upon the September 1994 soil investigation and the results of the soil analysis, the potential for release from this SWMU to the soil, air and groundwater is low.

Since the HTI facility was certified clean closed by DTSC on November 23, 1994, a VSI was not conducted.

8 Suggestions for Further Action

Results from soil, concrete, and soil-gas sampling in September 1994 suggested that operations at SWMU 1 – Hazardous Waste Storage Area (HWSA) did not release chemicals into underlying soil – concentrations that were detected were below background or below USEPA Region IX's Preliminary Remediation Goals (PRGs) for residential soil.

The soil-gas sampling in September 1994 also indicated that the interior of the former manufacturing building (non-permitted area) exhibited a VOC pattern which was likely to be associated with discharge from AOC 1 – Degreaser/Clarifier Area. However, the concentrations that were detected were below USEPA Region IX's PRGs for residential soil.

Although a variance was requested for AOC 2 - Above Ground Elementary Neutralization Unit, HTI claims they never treated hazardous waste. Furthermore, DTSC's files do not show a variance was issued to HTI or its predecessors.

The potential for release from SWMU 1, AOC 1, and AOC 2 to the soil, air and groundwater is low. Thus, no further investigation is warranted at this time for the HTI facility.

9 References

America at a Glance (AAAG). (2007, December 17). *West Covina at a Glance.* <http://westcovinaataglance.com/list_churches.htm>.

Department of Toxic Substances Control (DTSC). (1994a, June 9). "Hughes Training, Inc., 1200 E. San Bernardino Road, West Covina, CA 91791-1098 – Technical Completeness Determination for the Hazardous Waste Storage Area Modified Draft Closure Plan (EPA ID Number CAD008351827)."

DTSC. (1994b, June 30). "Fact Sheet #1: Hughes Training Incorporated Proposes Closure of Hazardous Waste Storage Area."

DTSC. (1994c, September 29). "Site Visit – Hughes Training Center (HTIC), West Covina, September 29, 1994."

DTSC. (1994d, November 18). "Closure Plan Approval – Hughes Training, Inc., West Covina, California, EPA ID CAD008351827."

DTSC. (1994e, November 18). "Negative Declaration, Hazardous Waste Facility Closure for The Hughes Training, Incorporated, 1200 East San Bernardino Road, West Covina, CA 91791, EPA ID Number CAD008351827."

DTSC. (1994f, November 23). "Closure Certification Acknowledgement – Hazardous Waste Container Storage Area, Hughes Training Incorporated, West Covina, California, EPA ID Number CAD0008351827."

Environmental Protection Agency (EPA). (1983, July 21). Letter to Honeywell that they are under California's Phase IIA interim authority status and that it was not necessary to send further correspondence to EPA.

EPA. (2007, December 17). "MultiSystem Report." *Envirofacts*. <http://oaspub.epa.gov/enviro/multisys2.get_list?facility_uin=110002143788>.

Los Angeles County of the Assessor (LAC). (2007, December 17). *Property Assessment Information System*. <http://assessor.lacounty.gov/extranet/datamaps/pais.aspx> and <http://maps.assessor.lacounty.gov/mapping/rolldata.asp?ain=8434015018>.

McLaren / Hart Environmental Engineering Corporation (McLaren / Hart). (November 1994a). "Closure Plan for the Hazardous Waste Storage Area, Hughes Training Incorporated, 1200 E. San Bernardino Road, West Covina, California."

McLaren / Hart. (1994b, November). "Closure Report for the Hazardous Waste Storage Area, Hughes Training Incorporated, 1200 E. San Bernardino Road, West Covina, California."

O.H. Materials Corporation (OHM). (1989, October 25). "Report of Potential Site Contamination Assessment Scope of Work."

Chronology – Honeywell Inc / Hughes Simulation Systems Inc / Hughes Training Inc
[Page 1 of 2]

May 19, 1963	Honeywell Inc operates Facility.
1980	Honeywell requests EPA to register as a Hazardous Waste Generator.
November 20, 1980	Honeywell submits Part A Application to EPA.
1981	Honeywell operates Hazardous Waste Storage Area (HWSA).
July 21, 1983	EPA writes Honeywell saying they are under California's Phase IIA interim authority status and to stop sending correspondence to EPA.
November 18, 1985	Honeywell submits Part B Application to DHS.
January 1, 1989	Hughes Aircraft Company Inc purchases Facility from Honeywell.
March 14, 1989	Honeywell requests Interim Status from DHS to be retroactive to 1985 submittal of Part B Application.
April 12, 1989	DHS responds to Honeywell's March 14, 1989 request for Interim Status. Concludes that Honeywell has been under Interim Status ever since filing a Part A Application.
May 1, 1989	Hughes Simulation Systems Inc (HSSI) submits revised Part A Application and announces transfer of Interim Status and Ownership from Honeywell.
June 8, 1989	DHS writes HSSI saying the May 1, 1989 Part A Application was received and they are an Interim Status facility.
July 10, 1989	HSSI submits to DHS a Variance Application for 90+ day onsite storage and above ground elementary neutralization of sulfuric acid.
July 11, 1991	HSSI submits revised Part A Application to EPA for facility name change from HSSI to Hughes Training Inc (HTI).
October 30, 1992	HTI submits a HWSA Closure Plan (CP) to DTSC.
March 1993	HTI ceases operations. Facility buildings are emptied and property is put up for sale.
April 14, 1994	HTI submits a Draft HWSA CP to DTSC.
May 1994	HTI submits a Draft HWSA CP to DTSC.

Chronology – Honeywell Inc / Hughes Simulation Systems Inc / Hughes Training Inc
[Page 2 of 2]

May 23, 1994	DTSC issues HTI a Notice of Deficiency for the Draft HWSA CP.
May 27, 1994	HTI submits a Draft HWSA CP to DTSC.
June 9, 1994	DTSC issues a Technical Completeness Determination for the May 27, 1994 Draft HWSA CP.
June 9, 1994	DTSC receives Closure Notice from HTI.
June 30, 1994	DTSC public notices the Draft HWSA CP.
July 29, 1994	DTSC comment period on the Draft HWSA CP was supposed to end this day but is later extended.
August 8, 1994	HTI notifies DTSC that they will begin closure activities per the Technically Complete, May 27, 1994 Draft HWSA CP during the extended comment period, but acknowledges they may need to conduct additional activities depending on the comments received.
September 6, 1994	Extended public comment period ends for Draft HWSA CP.
September 26, 1994	Multi-depth soil-gas survey is conducted (see Appendix D in the November 22-23, 1994 HWSA Closure Report).
October 14, 1994	Results generated for In-Place Density Test for the Excavated Pad Area (see Appendix E in the November 22-23, 1994 HWSA Closure Report).
November 18, 1994	DTSC conditionally approves November 1994 HWSA CP with the incorporation of a list of modifications.
November 18, 1994	HTI submits amended HWSA CP to DTSC based on conditional approval.
November 22, 1994	HTI submits a Closure Certification for the HWSA/Facility.
November 23, 1994	HTI submits another Closure Certification for the HWSA/Facility.
November 23, 1994	DTSC approves/acknowledges the Closure Certifications for the HWSA/Facility according to the November 18, 1994 CP.

Honeywell, Part A Permit Application, November 20, 1980:

EPA Listed Waste	Process Code	Process	Process Design Capacity	UOM	Annual Waste Per Year	UOM	Name
U226	T01	Tank	10	Gallons / Day	11.69	Tons	Neutralized Sulfuric Acid [1]
U226	S01	Container	200	Gallons	8,650	Pounds	1,1,1, Trichloroethane
U226	S01	Container	200	Gallons	8,250	Pounds	Isopropynal Alcohol
U226	S01 (T01)	Container (Tank)	175	Gallons	(1,350)	(Pounds)	Chromium (IV) Oxide [2]
U220	S01	Container	3	Gallons	21.5	Pounds	Toluene
U239	S01	Container	5	Gallons	82.25	Pounds	Xylene [3]

[1] Sulfuric Acid is neutralized in a holding tank then disposed of in the Sanitation System.
[2] Chromium (IV) Oxide is a portion of the Alodine System when the Process Tank is pumped once a year and landfilled.
[3] Xylene is used in several processes. The 35 gallons of liquid would be a combined total.

Hughes, Part A Permit Application, April 28, 1989:

EPA Listed Waste	Process Code	Process	Process Design Capacity	UOM	Annual Waste Per Year	UOM	Name
D002	T01	Tank	40	Gallons	10,000	Gallons	Neutralized Sulfuric Acid [1]
F001	S01	Container	300	Gallons	850	Gallons	1,1,1, Trichloroethane
D001	S01	Container	250	Gallons	275	Gallons	Isopropyl Alcohol
U032	S02	Tank	350	Gallons	350	Gallons	Chromium (VI) Oxide [2]
F001	S01	Container	35	Gallons	35	Gallons	Xylene
F002	S01	Container	200	Gallons	900	Gallons	Paint thinners, paint pigment, xylene, solder
N/A	S01	Container	350	Gallons	1,200	Gallons	California Waste Code 221;Oil [3]
N/A	S01	Container	600	Gallons	3,500	Gallons	California Waste Code 221; Machining oils containing heavy metals [3]
D002	T01 (S01)	Tank (Container)	40	Gallons / Day	(175)	(Gallons)	Nitric acid

[1] The 40 gallon/day sulfuric acid is used as an etching process on rubber, held in a containment tank, treated to a neutral point and then disposed of in the sanitation system.
[2] Chromium (IV) Oxide is contained in combination with sulfuric acid as an alodine process.
[3] The 600 gallons of machine cutting fluid and oils are California regulated waste only.

ATTACHMENT 1 – SITE LOCATION

CONTENTS

FIGURE 2-3 TOPOGRAPHIC MAP

FIGURE 2-1 SITE LOCATION MAP

TABLE 2.1 (WELLS IN AREA)

FIGURE 2-5 AREAS OF CONTAMINATION IN RELATION TO HTI FACILITY

HUGHES LEGAL DESCRIPTION OF WEST COVINA PROPERTY (2 PAGES)

HONEYWELL 300 FOOT RADIUS MAP

LOS ANGELES COUNTY OFFICE OF THE ASSESSOR
PROPERTY ASESSMENT INFORMATION SYSTEM
PRINT-OUTS (3 PAGES)

1999 ASSESSOR MAP

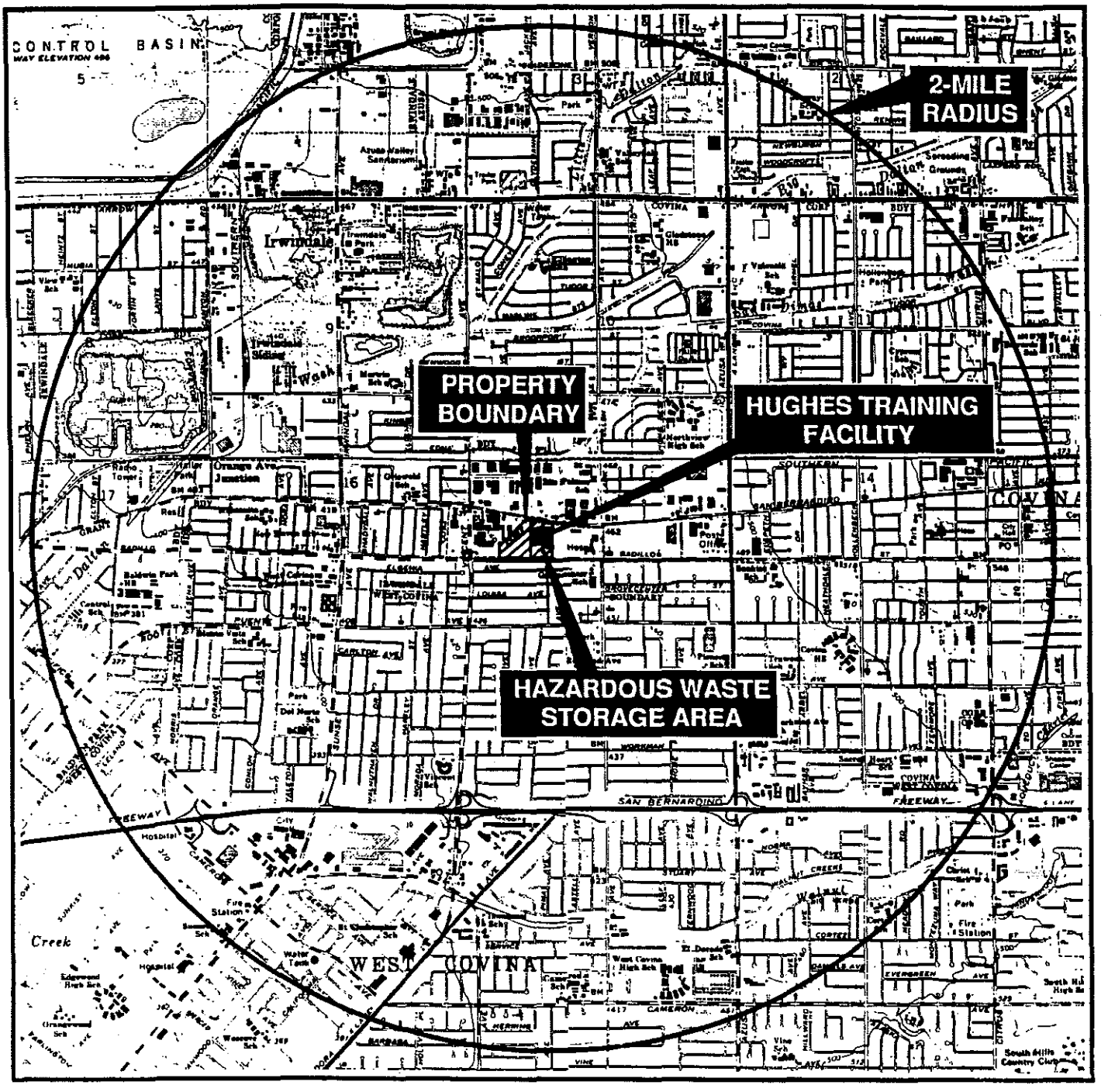
2006 INDEX MAP

FIGURE I MAP OF PROPERTY LINES AT 1200 E SAN BERNARDINO ROAD

FIGURE 2-2 SITE PLAN

FIGURE 2-4 DRAINAGE MAP

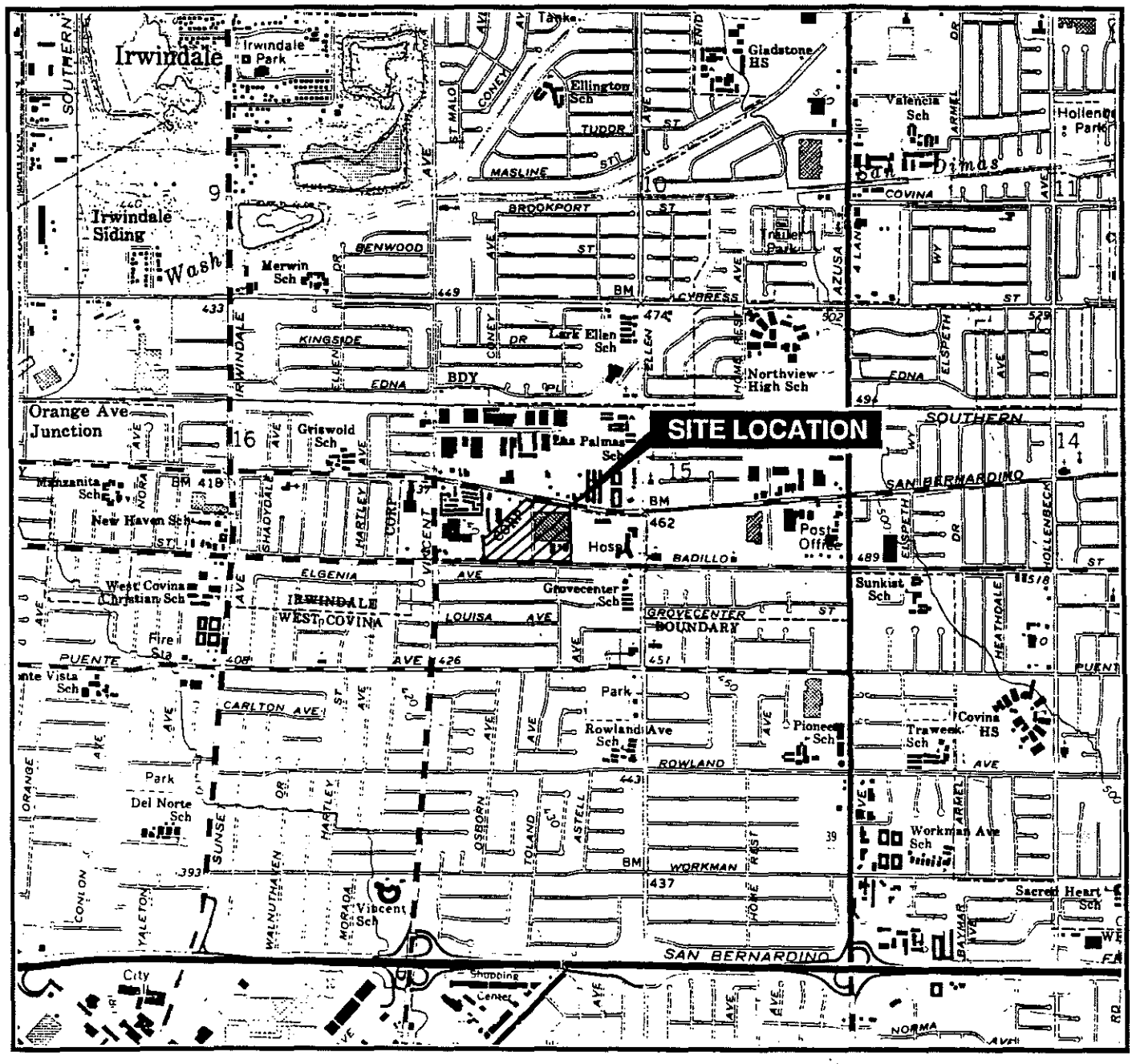
FIGURE 2-3
TOPOGRAPHIC MAP
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



SOURCE: FROM THE USGS MAP BALDWIN PARK QUADRANGLE, CA.
1966-PHOTOREVISED 1981; 7.5 MINUTE SERIES (TOPOGRAPHIC).

McLaren Hart

FIGURE 2-1
SITE LOCATION MAP
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



SOURCE: FROM THE USGS MAP BALDWIN PARK QUADRANGLE, CA.
1966-PHOTOREVISED 1981; 7.5 MINUTE SERIES (TOPOGRAPHIC).

N

0 2,000'

SCALE

McLaren Hart

TABLE 2.1

Well	Owner	Service Area
Azusa Va 8	Azusa Valley Water Company	Covina
VC/WD/MORA	Valley County Water District	Baldwin Park West Covina
GLEN4E	City of Covina	Covina West Covina
01900117	N/A	N/A
Z1902119	N/A	N/A
01902114	N/A	N/A
W1010P01	Site Assessment Well	N/A
VC WDARRO	Valley County Water District	West Covina
01902113	Subsurface	West Covina
W1015H01	Site Assessment Well	West Covina
COUIRBL3	Subterranean Water System	West Covina
W1015001	Site Assessment Well	West Covina
SUB114WI	Suburban Water System	West Covina
SUB139W4	Suburban Water System	West Covina
SUB139W1	Suburban Water System	West Covina
SUB125W2	Suburban Water System	West Covina

Information obtained from map entitled "San Gabriel Basin Cities and Water Purveyors" obtained from the San Gabriel Basin Water Quality Authority; Covina, California.

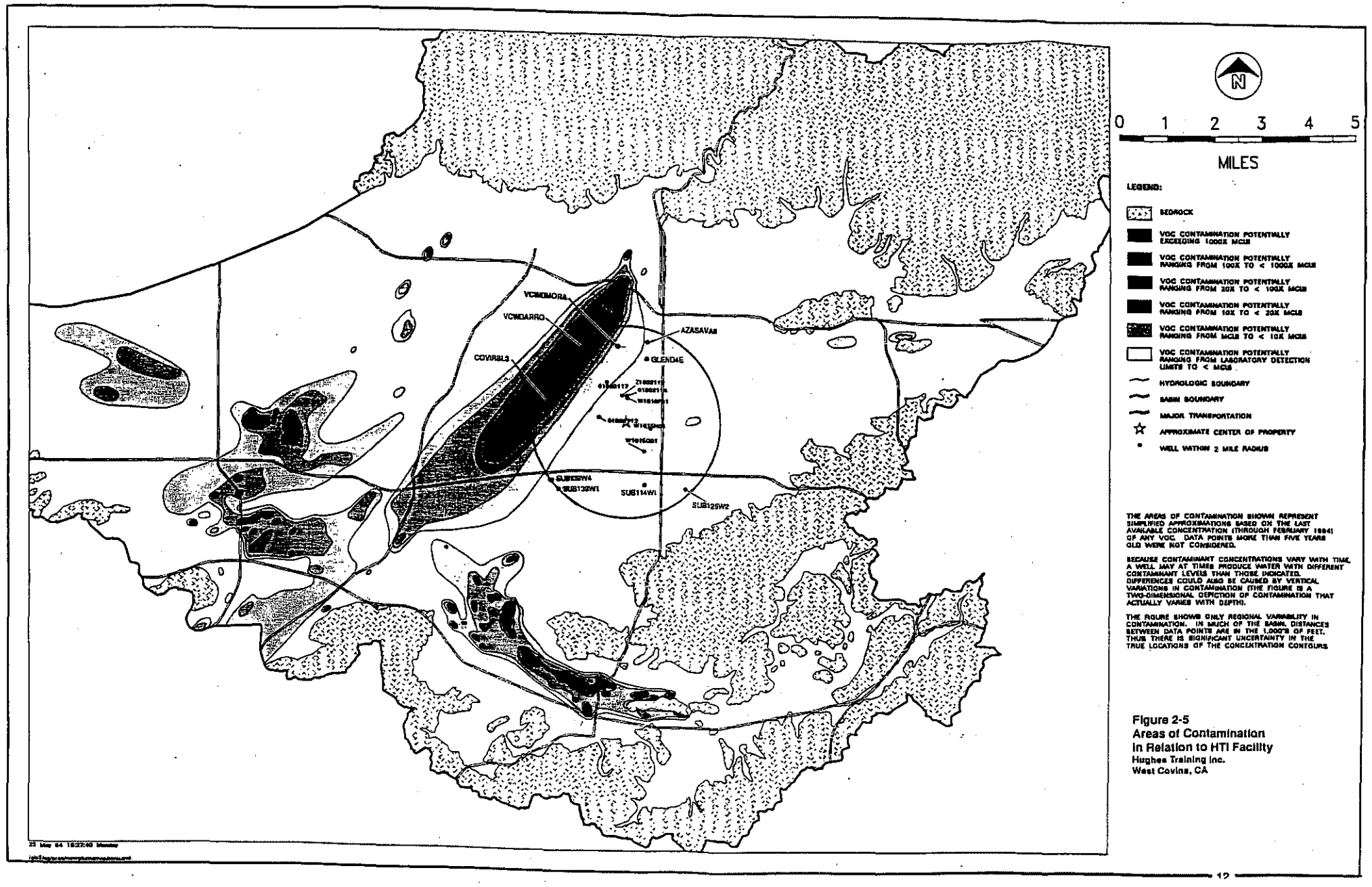


Figure 2-5
Areas of Contamination In Relation to HTI Facility
Hughes Training Inc.
West Covina, CA

Legal Description of West Covina Property

Parcel 1:

That portion of Lot 31 of the 576.50 acre tract known as W.R. Rowland Tract, in the Rancho La Puente, in the City of West Covina, in the County of Los Angeles, State of California, as per map recorded in Book 42 Page 45 of Miscellaneous Records, in the Office of the County Recorder of said County, and that portion of Lot 1 in Block 6 of the Phillips Tract, in said City, County and State, as per map recorded in Book 9 Page 4 of Miscellaneous Records, in the Office of the County Recorder of said County, described as a whole as follows:

Beginning at a point in the northerly line of the right of way of the Pacific Electric Railway Company (a plat showing the location of said right of way was filed in Case No. 52129 in the Superior Court of the County) now Badillo Street, said point being North 89 Degrees 38 Minutes 30 Seconds West 590.87 feet from the intersection of the easterly prolongation of the northerly line of said right of way, with the center line of Lark Ellen Street, formerly Azusa Street, as shown on said map of the Phillips Tract; thence North 0 Degrees 267 Minutes 30 seconds West 655.77 feet to the southerly line, North 79 Degrees 30 Minutes 30 Seconds West 487.70 feet, more or less to the westerly line of the land conveyed to Mrs. A.Z. Shoemaker, by Deed recorded September 19, 1908, in Book 3505 Page 149 of Deeds, as Instrument No. 58, records of said County, thence along said westerly line, South 0 Degrees 24 Minutes 30 Seconds West 741.52 feet to the northerly line of said right of way; thence along said northerly line, South 89 Degrees 38 Minutes 30 Seconds East 489.90 feet to the point of beginning.

Except that portion of said land as described in the Deed to the City of West Covina, recorded November 13, 1962 in Book D-1520 Page 262, Official Records, as Instrument No. 3112, in the Office of the County Recorder of said County.

Parcel 2:

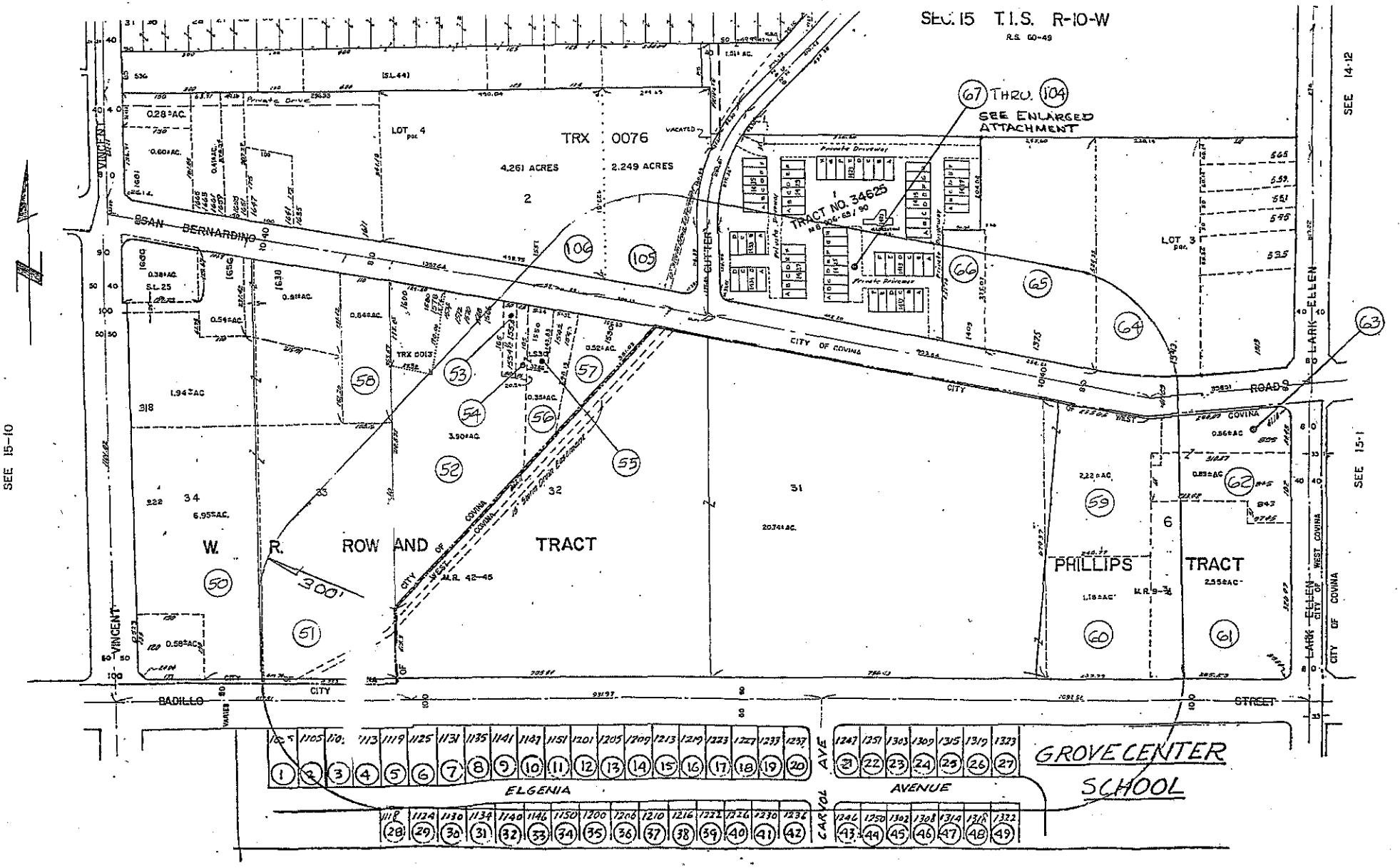
A portion of Lots 31 and 32 of the 576.5 acre tract known as W.R. Rowland Tract, in the Rancho La Puente, in the City of West Covina, in the County of Los Angeles, State of California, as per map recorded in Book 42 Page 45 of Miscellaneous Records, in the Office of the County Recorder of said County, described as follows:

Beginning at a point in the center line of the San Bernardino Road, South 789 Degrees 30 1/2 minutes East 625.33 feet along said center line from the intersection of the prolonged west line of said Lot 32, with the center line of said

road; thence South 45 Degrees 17 Minutes West 864.11 feet to said west line of Lot 32; thence south along said west line, 228.30 feet to the north line of the right of way of the Pacific Electric Railway, as shown on a plat filed in Action No. 52129 of the Superior Court of said County; thence South 89 Degrees 36 1/2 Minutes East along said north line of right of way. 983.67 feet, more or less, to the southwest corner of the parcel of land conveyed to Mrs. A.Z. Shoemaker, by Deed recorded September 19, 1908, in Book 3503 Page 148 of Deeds; thence north along the west line of land so conveyed and the prolongation thereof, 775.08 feet, more or less, to the center line of said San Bernardino Road; thence North 79 Degrees 30 1/2 Minutes West along the center line of said road, 370.37 feet to the beginning.

Expect that part thereof within said San Bernardino Road.

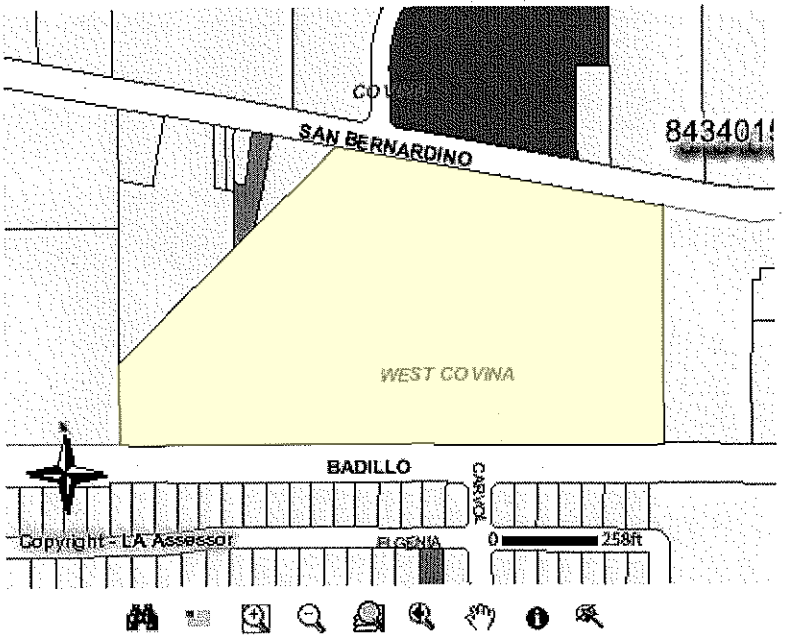
Also except that portion of said land as described in the Deed to the City of West Covina, recorded November 13, 1962, in Book D-1820 Page 262, Official Records, as Instrument No. 3112, in the Office of the County Recorder of said County.



300 FOOT RADIUS MAP

HONEYWELL
1200 E. SAN BERNARDINO RD


Los Angeles County
Office of the Assessor


SAN BERNARDINO
WEST COVINA
BADILLO
CARNOL
ELGENIA
Copyright - LA Assessor
0
258ft

Records for this property are kept at the East District Office
(How frequently is the information updated on this site?)

Property Information

Assessor's ID No.	8434-015-018
Site Address	1211 E BADILLO ST WEST COVINA CA 91790
Property Type	Other
Region / Cluster	27 / 27625
Tax Rate Area (TRA)	03083

Click Here to View Assessor's Map

(Click Here to View Index Map)

Recent Sale Information

Latest Sale Date

Indicated Sale Price

Search for Recent Sales

2007 Roll Values

Recording Date	05/03/1995
Land	$6,017,884
Improvements	$6,268,631
Personal Property	$2,254,000
Fixtures	$1,791,000
Homeowners' Exemption	$0
Real Estate Exemption	$12,286,515
Personal Property Exemption	$2,254,000
Fixture Exemption	$1,791,000

Click Here for 2007 Annual Taxes

(I have a question regarding my property tax payment)

Estimate Supplemental Taxes

Property Boundary Description

LOT EX OF ST COM N 79¢30'30" W 37.08 FT FROM NE COR OF LOT 31 TH N 79¢ 30'30" W 857.57 FT TH S 45¢17' W 864.11 FT TH S ON W LINE OF LOT 32 TO N LINE ... SEE MAPBOOK FOR MISSING PORTION ... 576.50 ACRE TR KNOWN AS W R ROWLAND TR

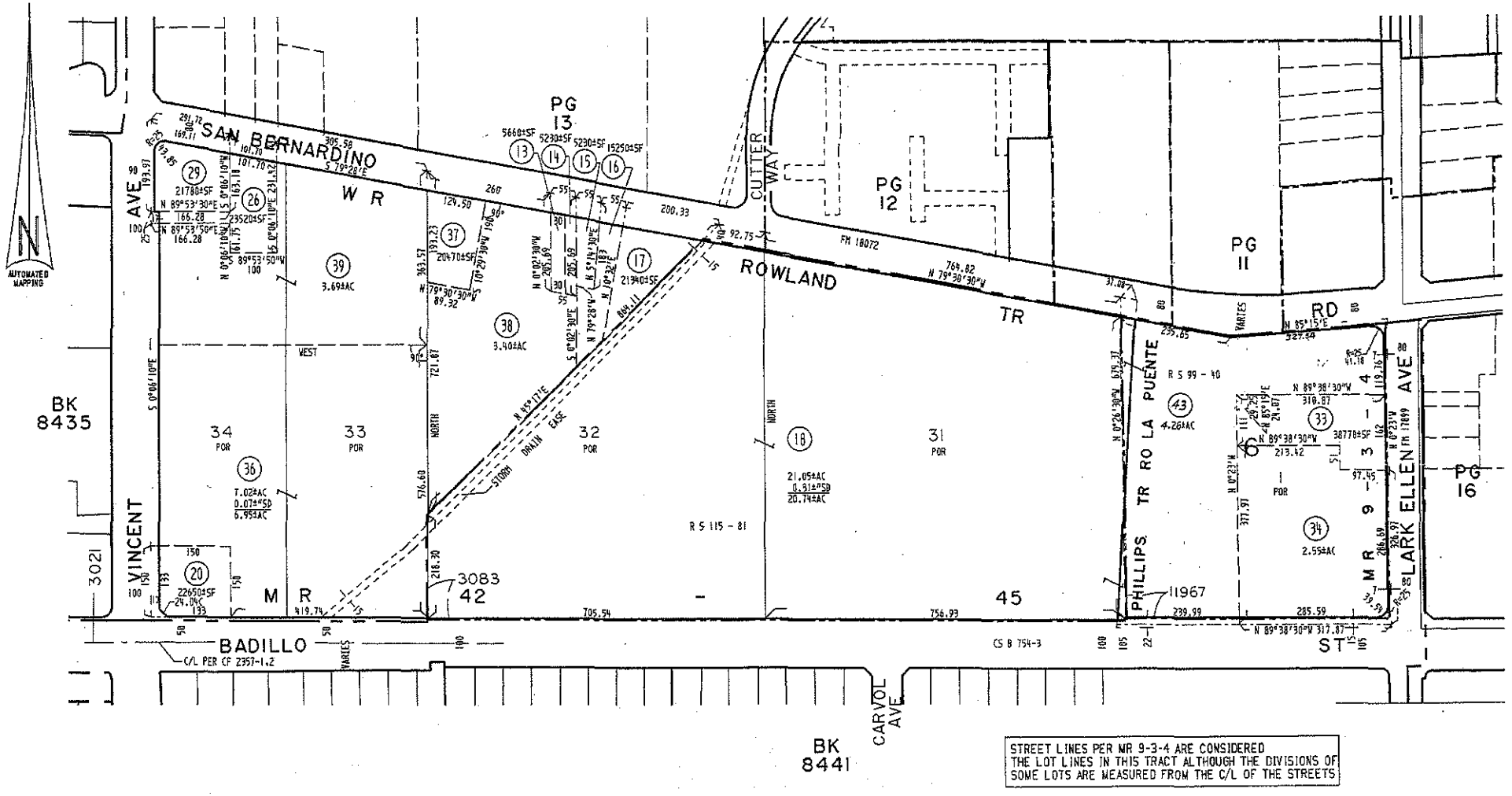
Building Description(s)

	Improvement 1
Square Footage	162,213
Year Built / Effective Year Built	1963 / 1980
Bedrooms / Bathrooms	0 / 0
Units	0

	Improvement 2
Square Footage	700,000
Year Built / Effective Year Built	1963 / 1980
Bedrooms / Bathrooms	0 / 0
Units	0

Click Here for Another Search

1999

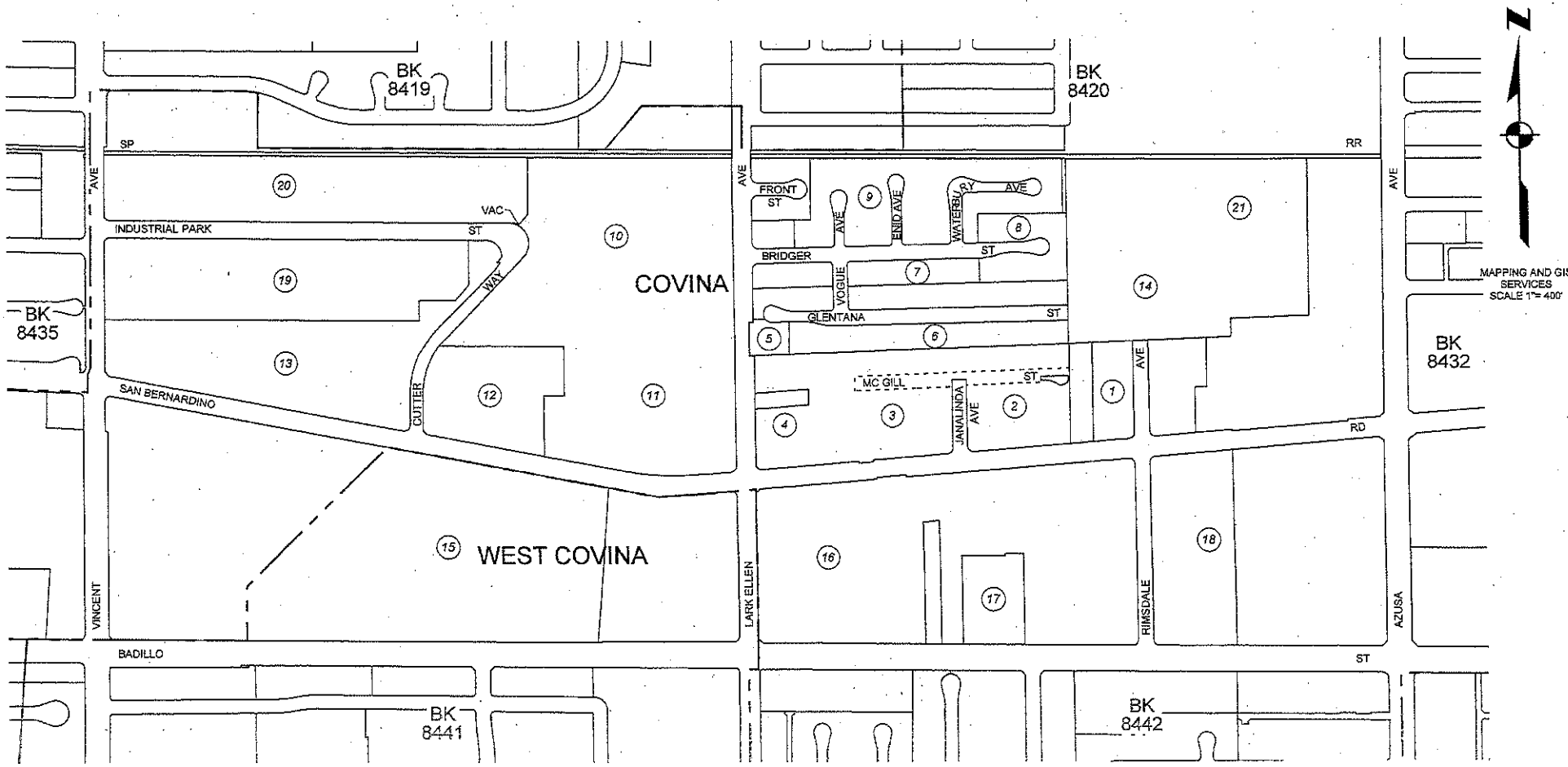

AUTOMATED MAPPING
SAN BERNARDINO
ROWLAND
CUTTER WAY
PG 13
PG 12
PG 11
PG 16
RD
TR
FM 18072
BK 8435
BK 8441
VINCENT AVE
3021
LARK ELLEN AVE
PHILLIPS TR RO LA PUENTE
BADILLO
CARVOL AVE
ST
11967
3083
42
45
34
33
32
31
M R
W R
R S 115 - 81
R S 99 - 40
STORM DRAIN EASE
C/L PER CF 2357-1,2
CS B 754-3
STREET LINES PER MR 9-3-4 ARE CONSIDERED THE LOT LINES IN THIS TRACT ALTHOUGH THE DIVISIONS OF SOME LOTS ARE MEASURED FROM THE C/L OF THE STREETS

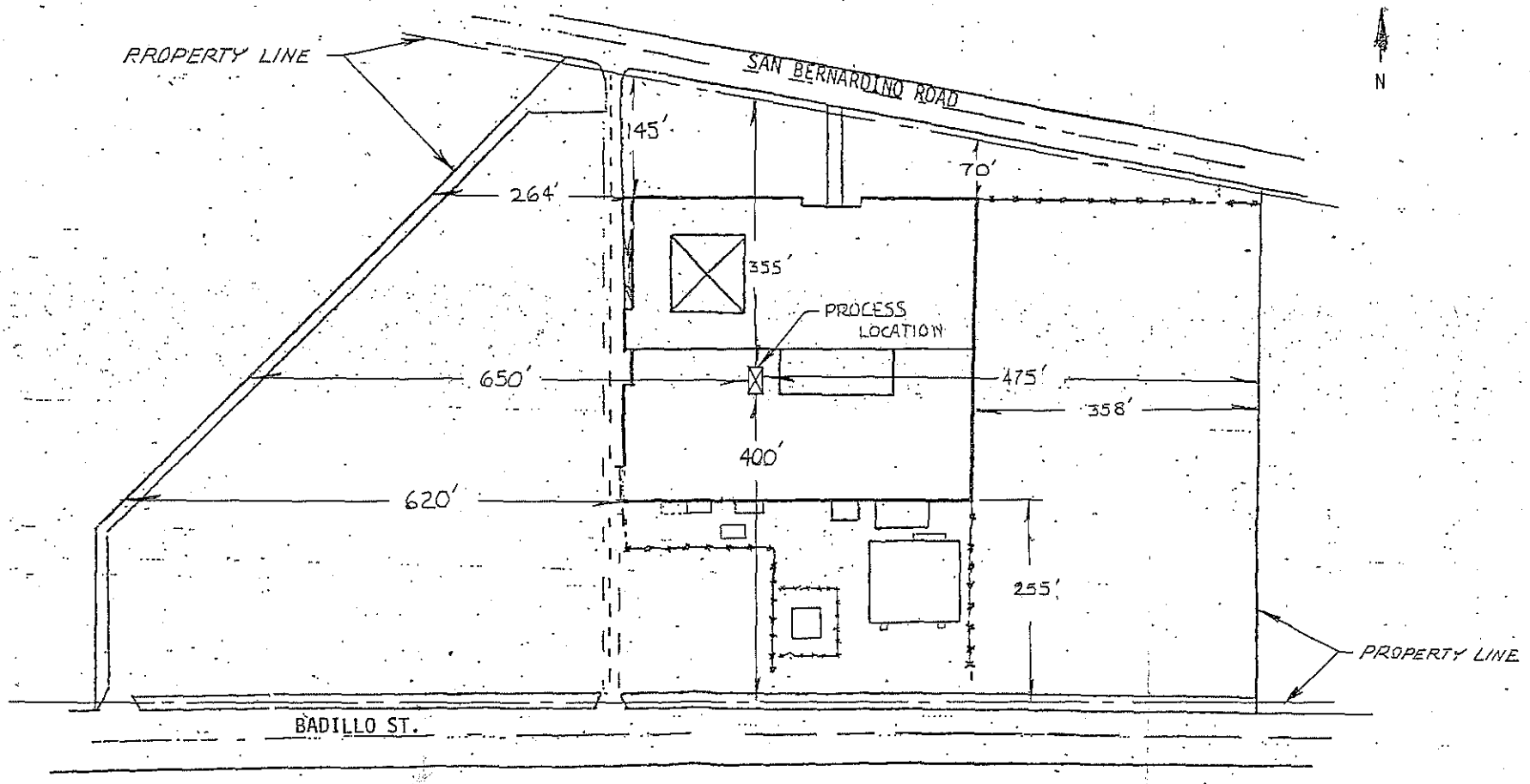
OFFICE OF THE ASSESSOR
COUNTY OF LOS ANGELES
COPYRIGHT © 2002

REVISED:
931124
2005122905

INDEX 8434

2006

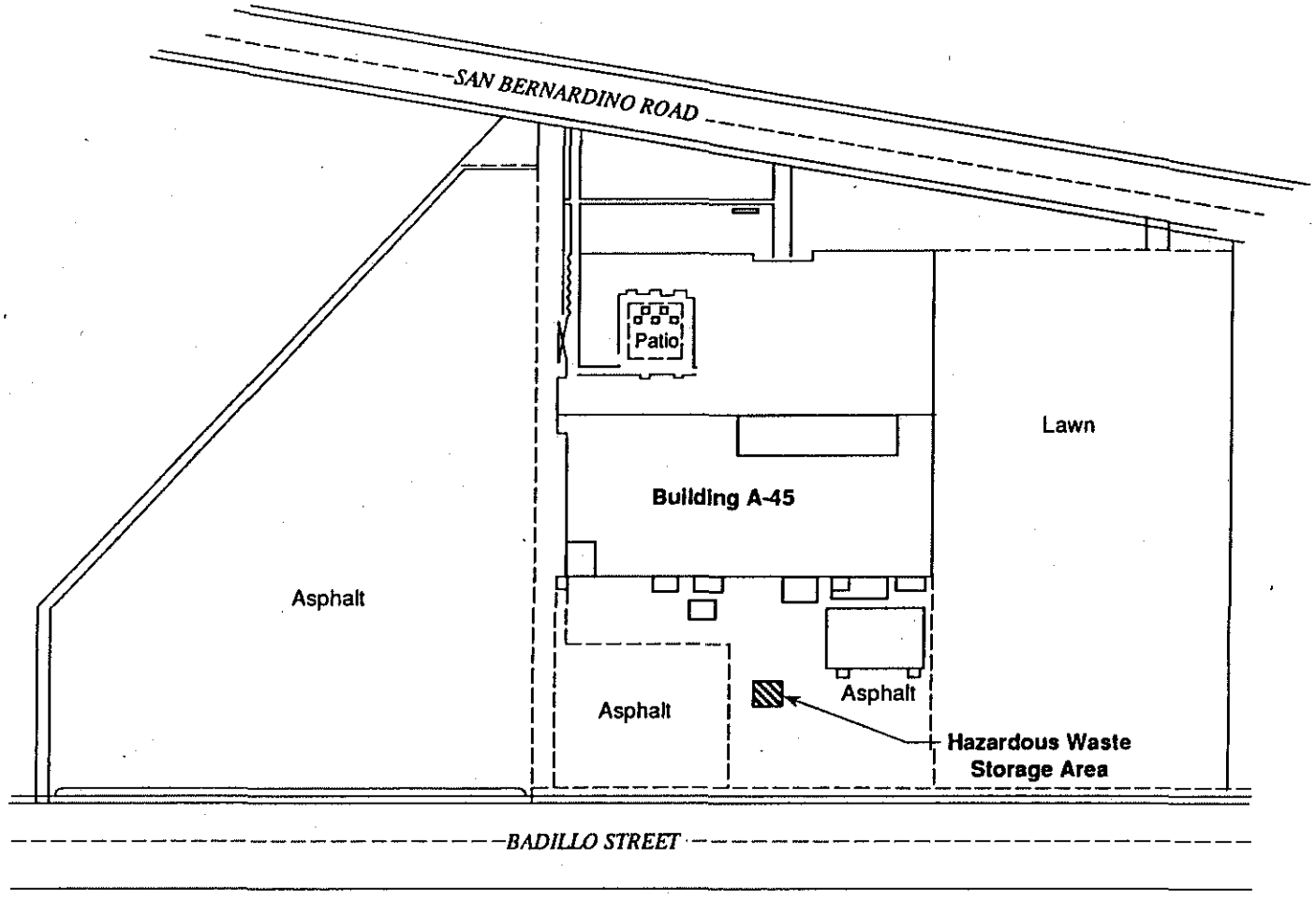




1200 E. SAN BERNARDINO ROAD
WEST COVINA, CALIF.

Figure I

FIGURE 2-2
SITE PLAN
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA

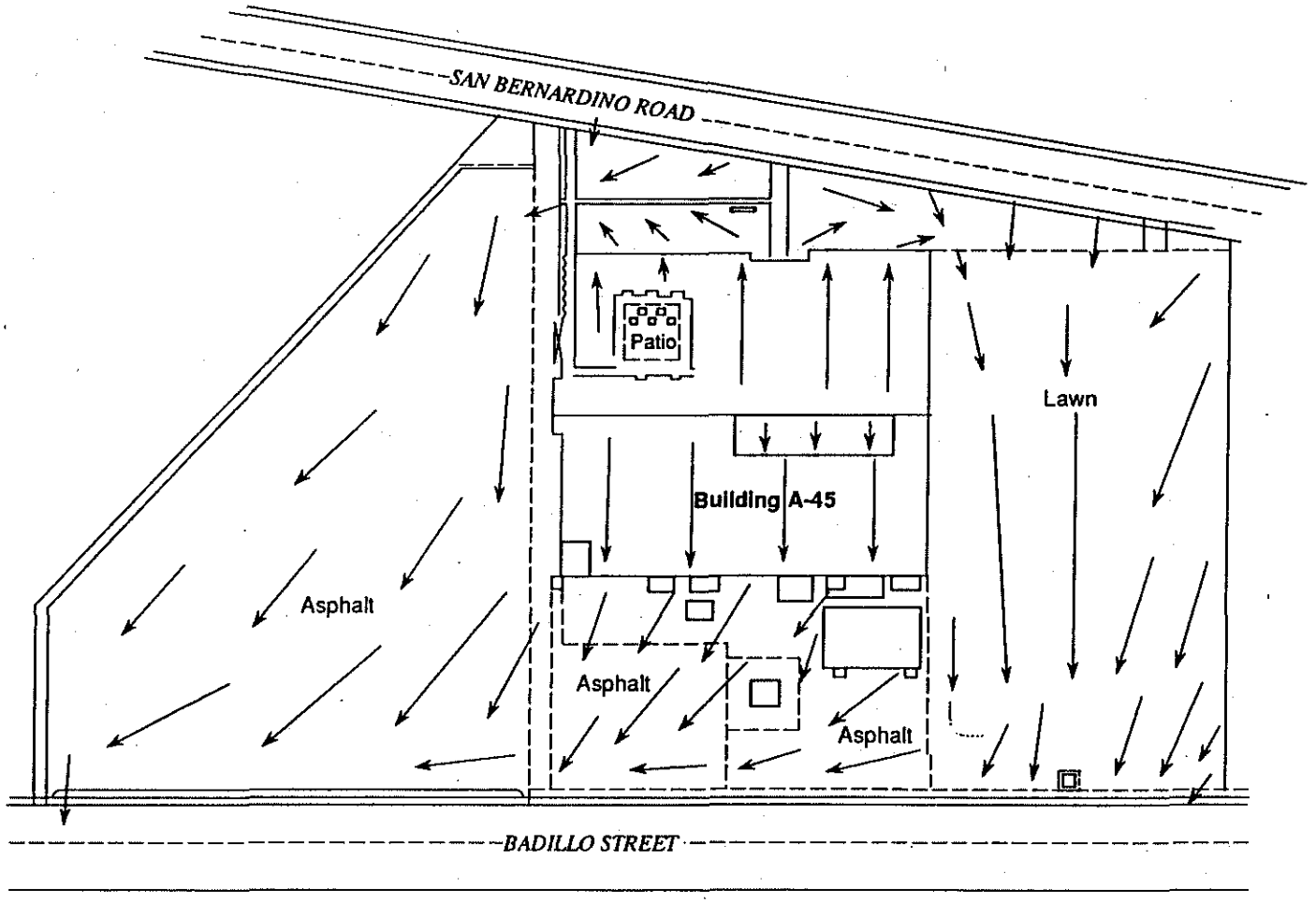


(NOT TO SCALE)

McLaren Hart

E9410004

FIGURE 2-4
DRAINAGE MAP
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



(NOT TO SCALE)

McLaren Hart

E9410005

ATTACHMENT 2 – HAZARDOUS WASTE STORAGE AREA DESCRIPTION

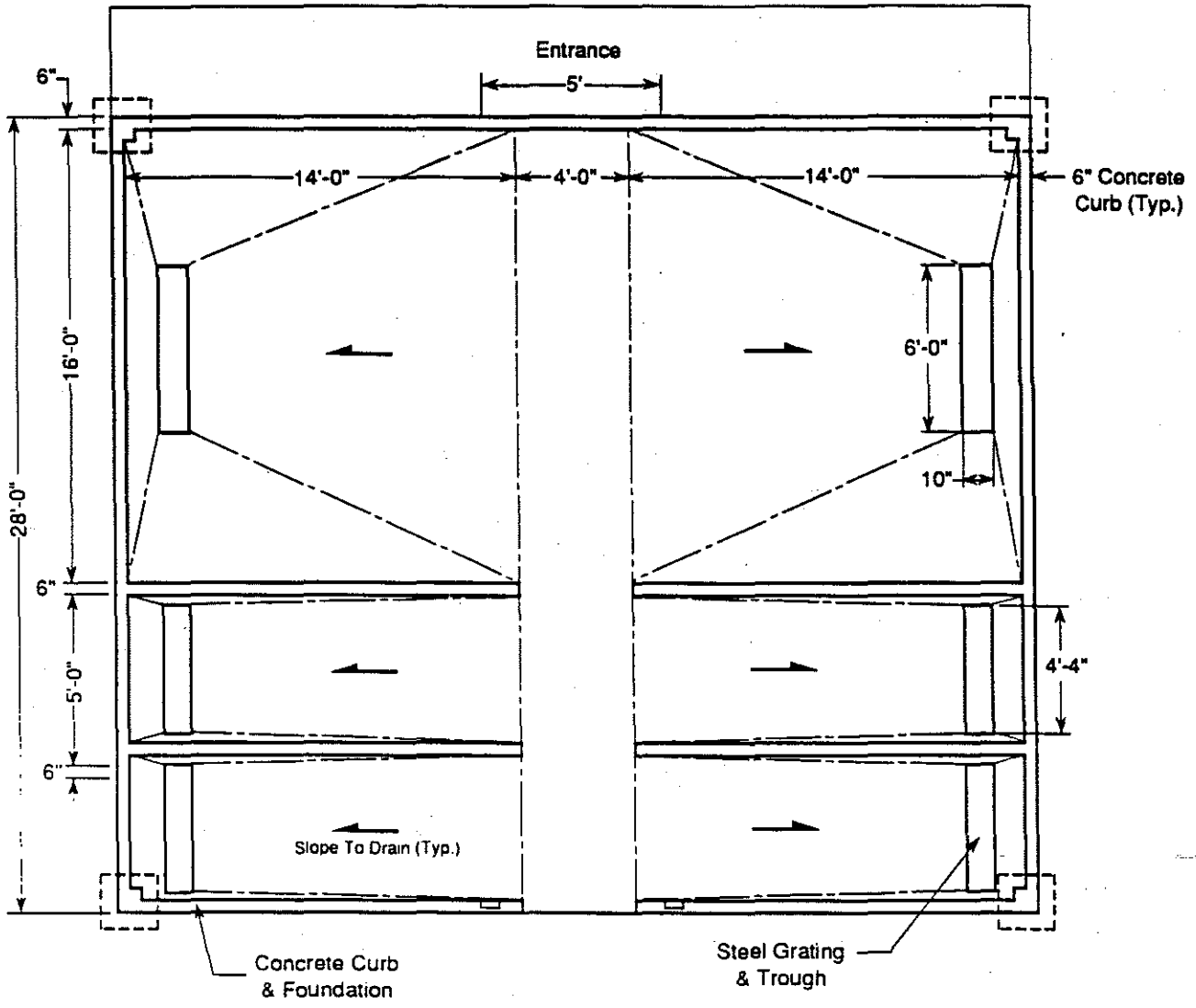
CONTENTS

FIGURE 3-1 HAZARDOUS WASTE STORAGE AREA

FIGURE 3-2 HAZARDOUS WASTE STORAGE AREA LAYOUT

TABLE 3-3 HAZARDOUS WASTE STORED AT HWSA

FIGURE 3-1
HAZARDOUS WASTE STORAGE AREA
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



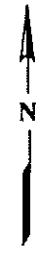


FIGURE 3-2
HAZARDOUS WASTE STORAGE AREA LAYOUT
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA

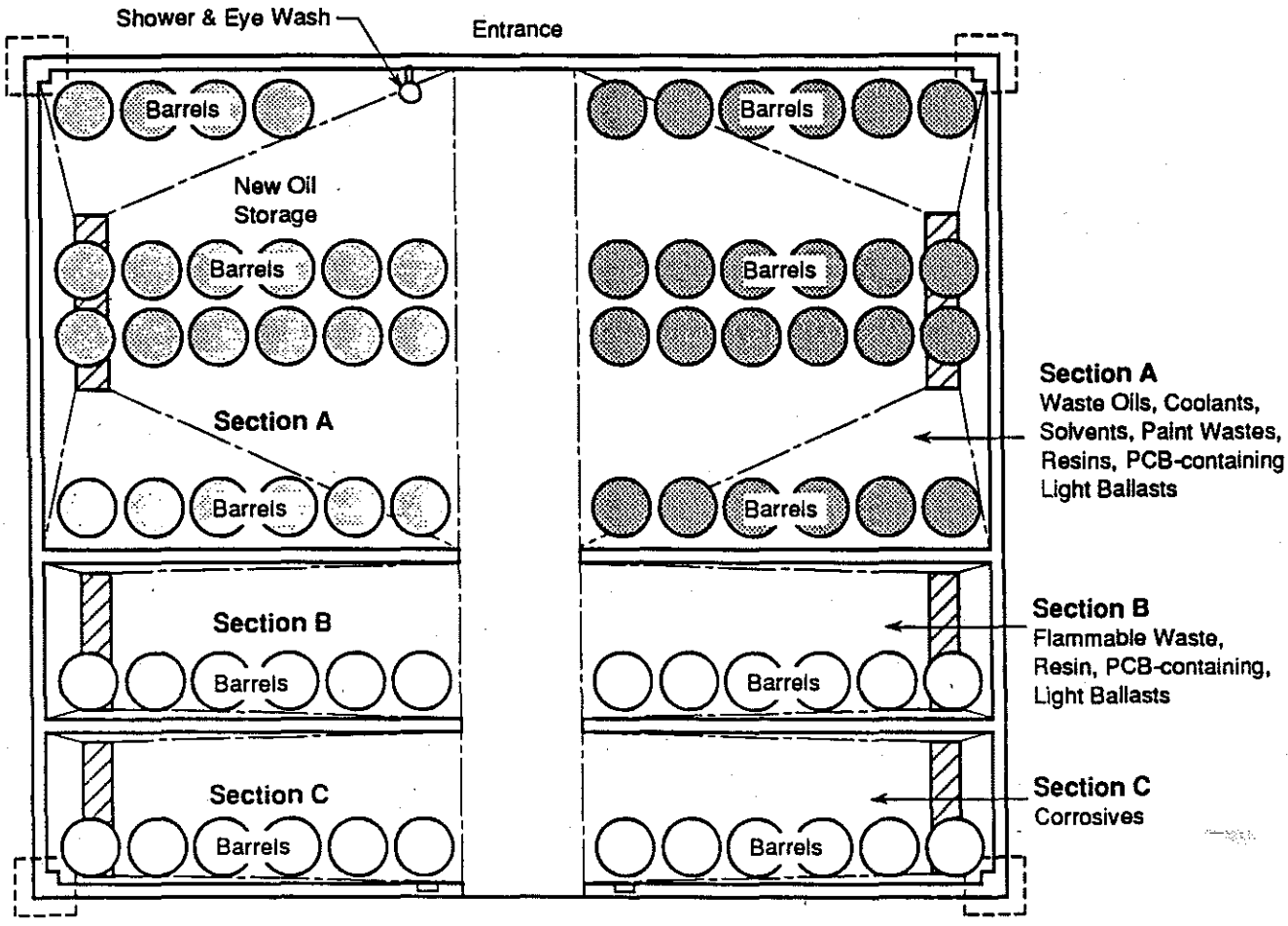


Table 3-3
Hazardous Wastes Stored at the HWSA

Waste Type	Waste Name	Constituents	Annual Quantity	Unit	Physical State	EPA Code(s)	California Code(s)
Acids	Leader Ardrox 295 G	Fluoboric acid, sulfuric acid, nitric acid	660	Gal	Liquid	F019	181
	Sulfuric acid	Sulfuric acid					
	Phosphoric acid	Phosphoric acid					
	Hydrochloric acid	Hydrochloric acid					
	Zyglo developer	Potassium dichromate, sodium nitrate					
	Leader Ardrox 171-H	Chromic acid					
	Leader Ardrox	Chromic acid					
Alkalines	ZP-5B Zyglo wet developer	Trisodium phosphate[1]	110	Gal	Liquid	D002	122
	Leader Ardrox 178-H	Soda ash					
	Sodium carbonate	Sodium carbonate[1]					
Adhesives	Chemlok 220	Xylene, lead, trichloroethylene, carbon tetrachloride	300	Gal	Solid	—	272, 331
	Chemlok 205	Xylene, methyl ethyl ketone					
	Rubber cement	Methyl ethyl ketone, phenol					
Cutting fluids and oils	Cool tool	Oil	5,160	Gal	Liquid	F002, F005	221, 741
	615-Flux	Petroleum hydrocarbons					
	Zyglo-penetrant	Mineral oil					
	Zyglo emulsifier	Oil (50%)					
	Maintenance oil	Oil (100%)					
	WD-40	Oil (100%)					
	Lubricants	Oil (100%)					
PCBs	Lighting ballasts	PCBs	3	Drum	Solid	—	261

Table 3-2
Hazardous Wastes Stored at the HWSA

Waste Type	Waste Name	Constituents	Annual Quantity	Unit	Physical State	EPA Code(s)	California Code(s)
Acids	Leeder Ardrox 295 G	Fluoboric acid, sulfuric acid, nitric acid	660	Gal	Liquid	F019	181
Solvents and waste paints—mixed flammable waste	1,1,1-Trichloroethane	1,1,1-Trichloroethane	540	Gal	Liquid	F001	741
	Ink remover	1,1,1-Trichloroethane					
	Humiseal thinner	Xylene, toluene, methylene chloride	456	Gal	Solid	F001, F005	214
	Pre-Lete defluxer	1,1,1-Trichloroethane, 1,4-dioxane					
	Humiseal 1A33	Ethyl benzene, xylene, toluene, methyl ethyl ketone					
	Epoxy stripper	Methylene chloride					
	R-process gum	Isopropyl alcohol, formaldehyde					
	Enamel air dry TTE-527	Chrome, lead					
	Enamel air dry	Chrome, lead, chromates					
	PT-426	Toluene, methyl ethyl ketone, ethyl acetate					
	Epoxy coating	Methyl ethyl ketone, glycol ether,[1] toluene, formaldehyde					
	Primer	Poly vinyl chloride[1]					
Heavy metals	Spent batteries	Lead, nickel, cadmium	84	Each	Solid	D002, D005	121
Labpack	Labpack—Miscellaneous aerosol spray cans	Paints, adhesives	6	Drum	Solid	D001, D003	551
Hazardous waste Solid	Empty containers of paint, adhesives, etc. Dirt, debris, cardboard, wood	Paints, adhesives	20	Yards	Solid	—	513, 352

[1]Not listed as a hazardous constituent in 22 CCR 66261.126, Appendix VIII.

ATTACHMENT 3 – SEPTEMBER 1994 SOIL INVESTIGATION

CONTENTS

FIGURE 8-1 HAZARDOUS WASTE STORAGE FACILITY SOIL SAMPLING LOCATIONS

FIGURE 8-2 APPROXIMATE BACKGROUND SOIL SAMPLING LOCATIONS

FIGURE 8-3 SOIL GAS SAMPLING LOCATIONS AT HAZARDOUS WASTE STORAGE AREA

FIGURE 8-4 SAMPLING LOCATIONS AT HUGHES TRAINING FACILITY

TABLE 11.1 CONCENTRATION OF CHEMICALS DETECTED IN SOIL

TABLE 11.2 CONCENTRATIONS OF METALS IN SOIL

TABLE 11.3 CONCENTRATION OF CHEMICALS DETECTED IN CONCRETE

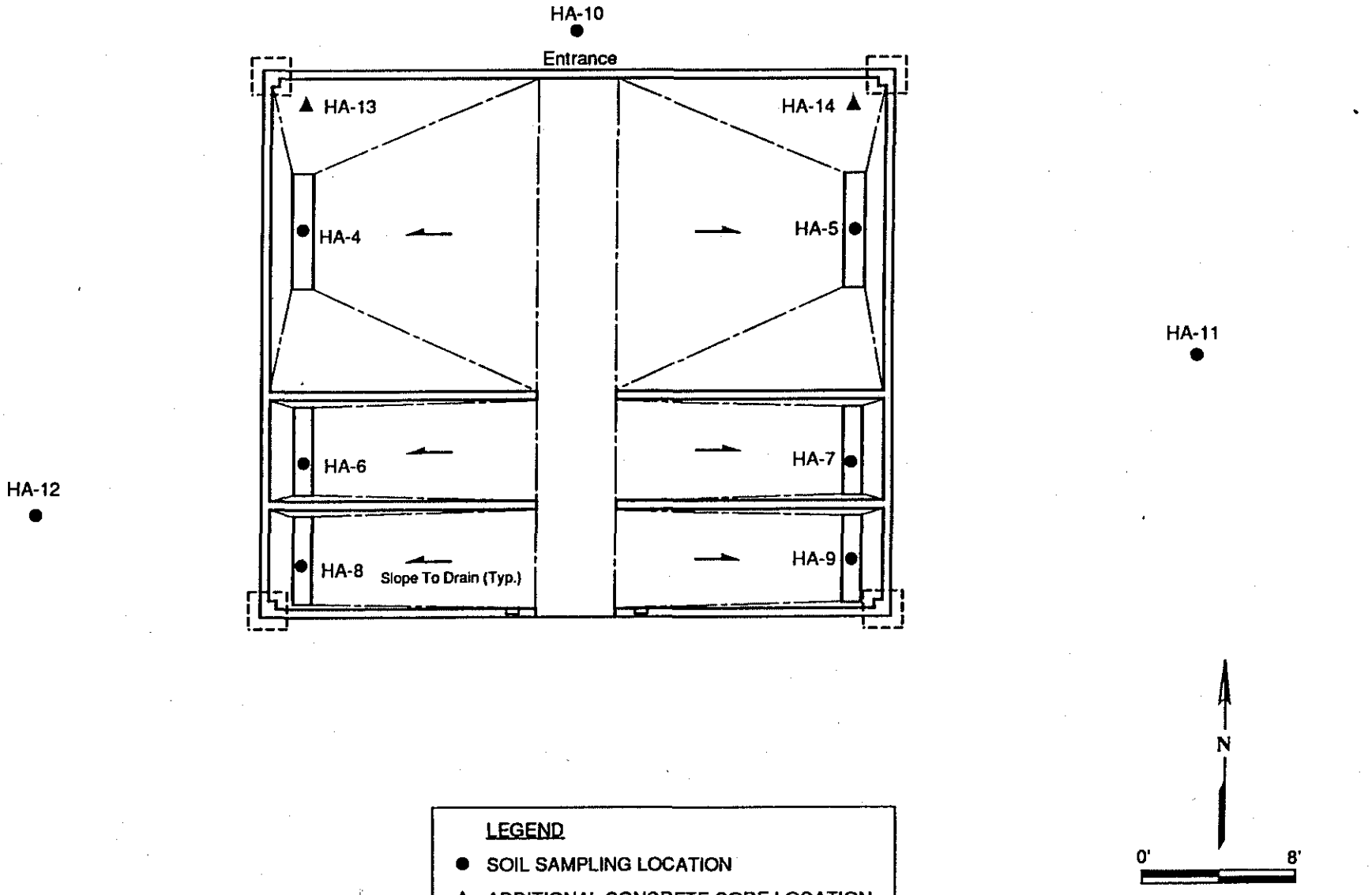
TABLE 11.4 SUMMARY OF FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES

FIGURE 11.5 ISO-CONCENTRATION CONTOURS FOR 1,1,1-TRICHLOROETHANE AT 5 FT BGS

FIGURE 11.6 ISO-CONCENTRATION CONTOURS FOR TETRACHLORETHENE AT 5 FT BGS

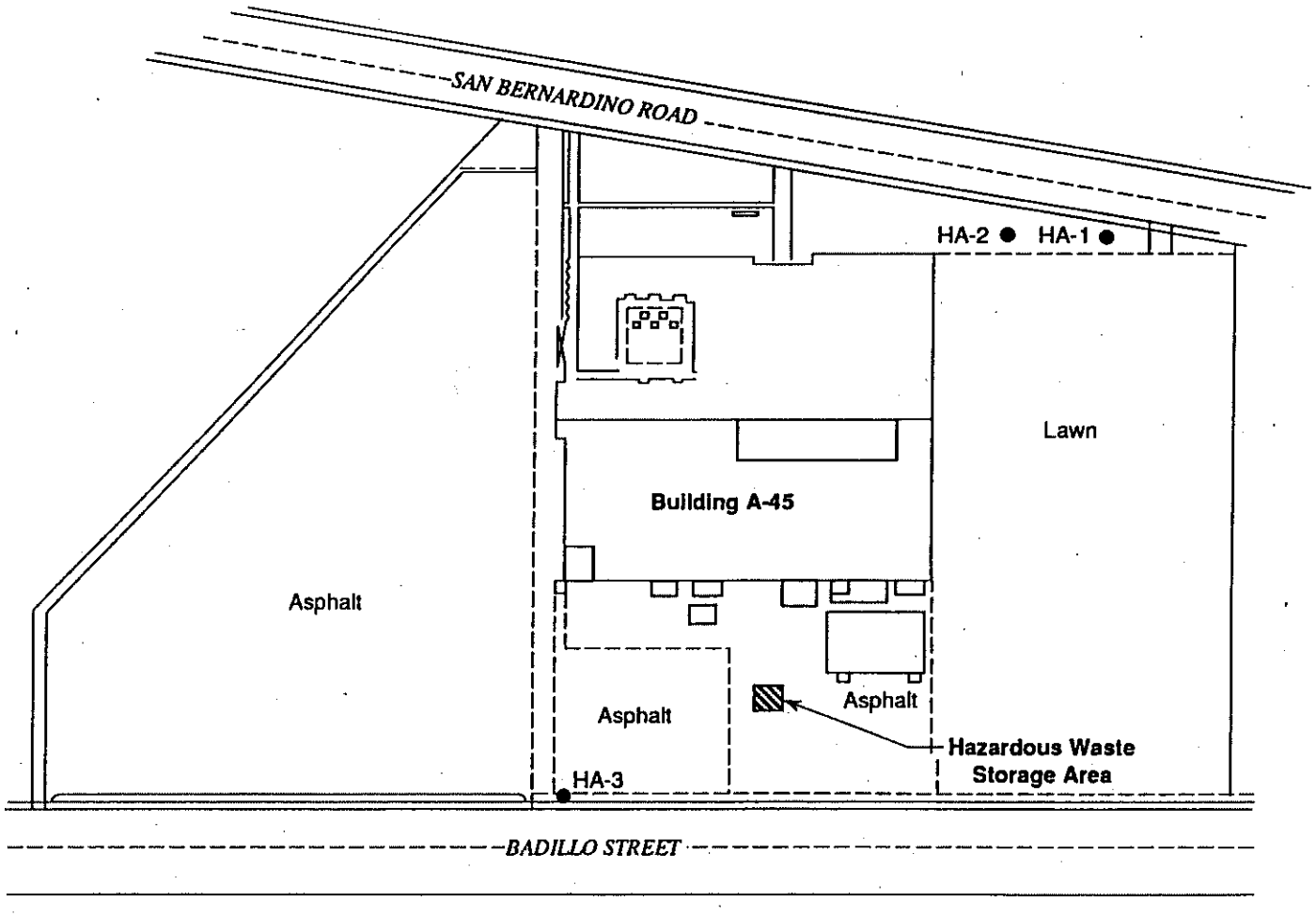
TABLE OF EPA-IX PRGS (AS OF 2004) FOR RESIDENTIAL SOIL

FIGURE 8-1
HAZARDOUS WASTE STORAGE FACILITY
SOIL SAMPLING LOCATIONS
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



T9410024

FIGURE 8-2
APPROXIMATE BACKGROUND
SOIL SAMPLING LOCATIONS
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



Legend

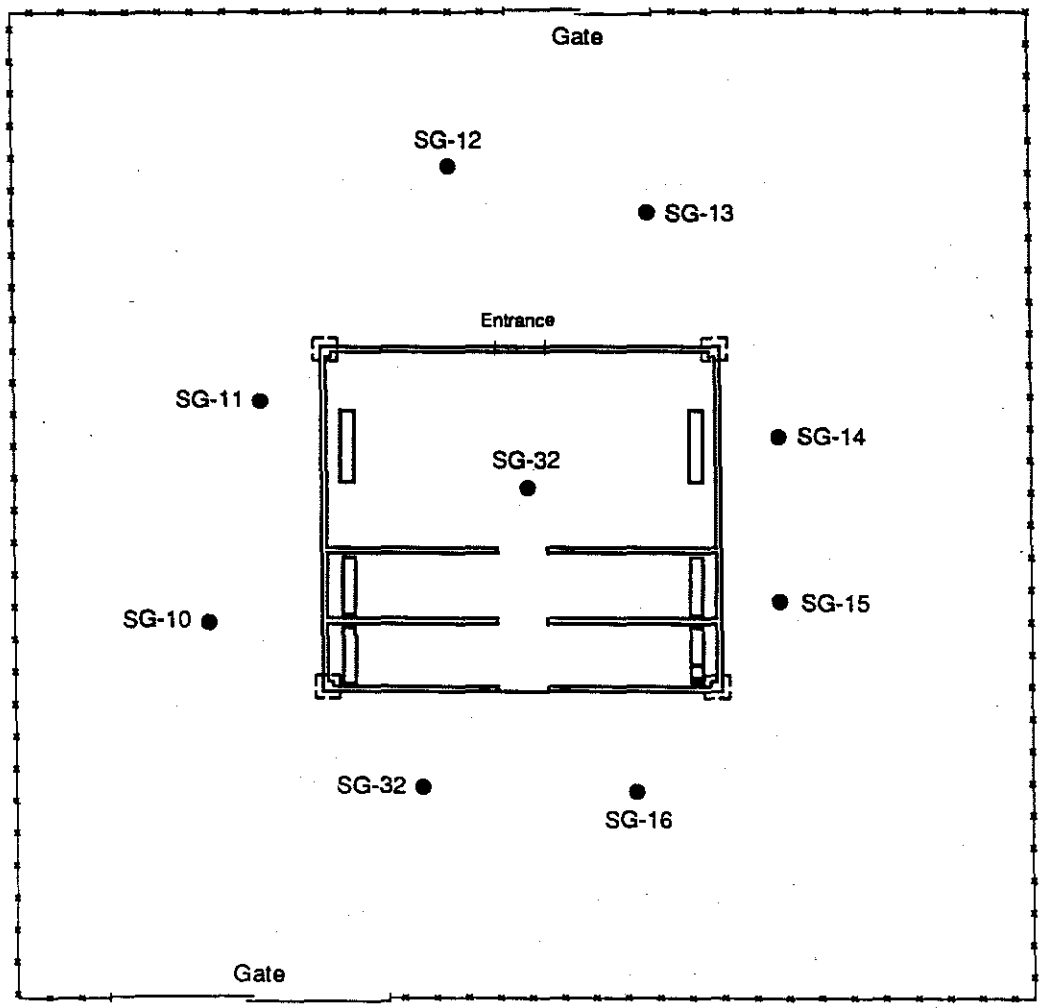
● Soil Sampling Locations

(NOT TO SCALE)

McLaren Hart

E9410003

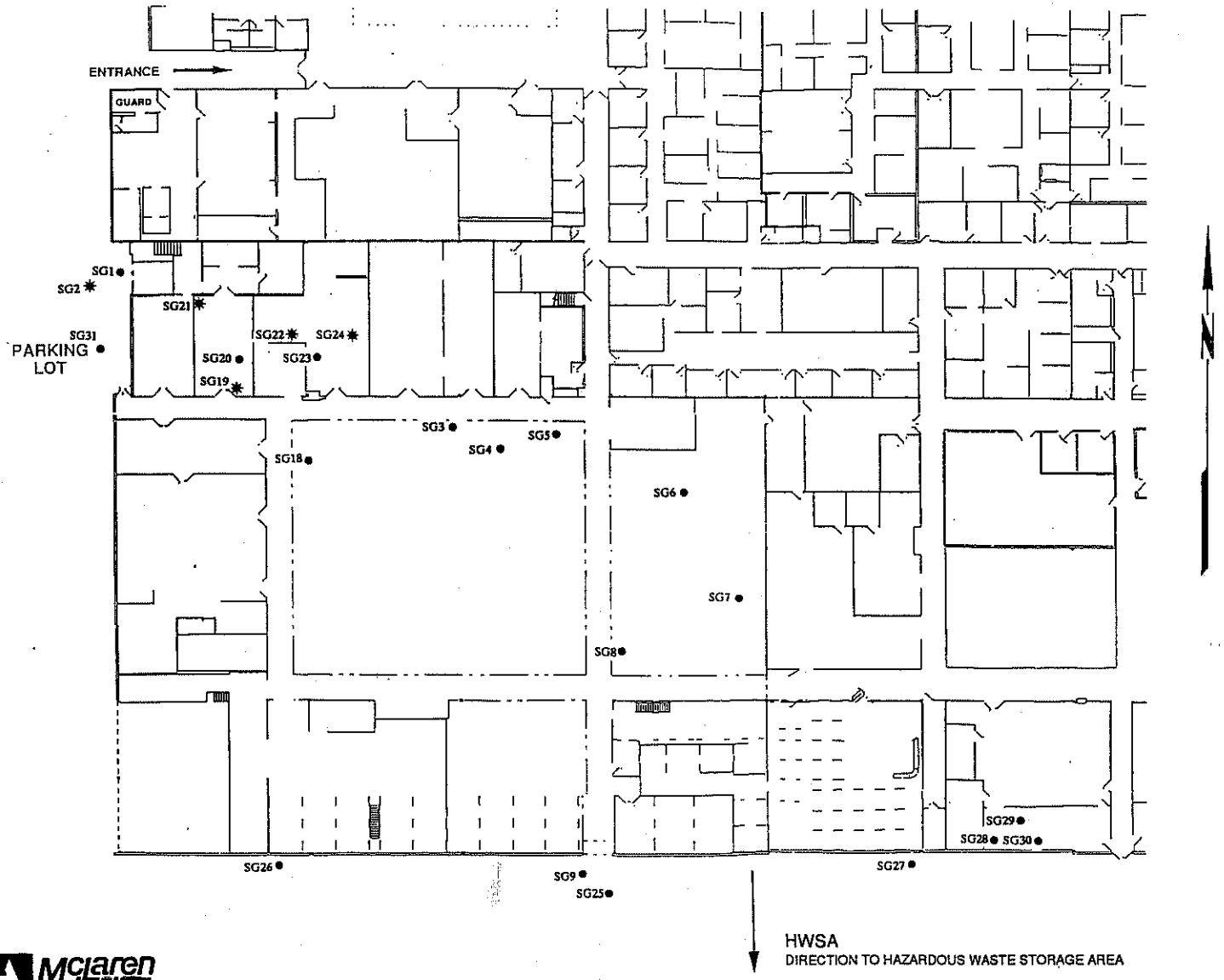
FIGURE 8-3
SOIL GAS SAMPLING LOCATIONS AT
HAZARDOUS WASTE STORAGE AREA
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



LEGEND
● SOIL GAS SAMPLING LOCATION

N

FIGURE 8-4
SAMPLING LOCATIONS
AT HUGHES TRAINING FACILITY
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



NOTES:

MAP NOT TO SCALE

EXPLANATION

- APPROXIMATE LOCATION OF 5-FOOT SOIL GAS PROBE
- APPROXIMATE LOCATION OF 5-FOOT AND 15-FOOT SOIL GAS PROBE

McLaren Hart

TABLE 11.1
CONCENTRATION OF CHEMICALS DETECTED IN SOIL (ppm)
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA

				EPA Method 418.1 (ppm)	Pesticides by EPA Method 8080 (ppm)		
Sample Location	Date Sampled	Depth (feet)	pH	TPH	4,4'-DDE	4,4'-DDD	4,4'-DDT
HA-1	9/29/94	0.5	7.4	9	0.059	ND<.008	0.02
HA-1	9/29/94	3	7.2	ND<5	ND<.004	ND<.004	ND<.004
HA-2	9/29/94	0.5	7.8	ND<5	ND<.002	ND<.002	ND<.002
HA-2	9/29/94	3	7.8	ND<5	ND<.002	ND<.002	ND<.002
HA-3	9/29/94	0.5	6.8	24	ND<.018	ND<.018	ND<.018
HA-3	9/29/94	3	7.2	62	ND<.008	ND<.008	ND<.008
HA-4	9/29/94	0.5	8.3	ND<5	ND<.002	ND<.002	ND<.002
HA-4	9/29/94	5	7.6	ND<5	ND<.002	ND<.002	ND<.002
HA-5	9/29/94	0.5	8.2	ND<5	ND<.002	ND<.002	ND<.002
HA-5	9/29/94	5	7.5	ND<5	ND<.002	ND<.002	ND<.002
HA-6	9/29/94	0.5	7.8	ND<5	ND<.002	ND<.002	ND<.002
HA-6	9/29/94	5	7.6	ND<5	ND<.002	ND<.002	ND<.002
HA-7	9/29/94	0.5	8.6	ND<5	ND<.002	ND<.002	ND<.002
HA-7	9/29/94	5	7.5	ND<5	ND<.002	ND<.002	ND<.002
HA-8	9/29/94	0.5	8.2	ND<5	ND<.002	ND<.002	ND<.002
HA-8	9/29/94	5	7.5	ND<5	ND<.002	ND<.002	ND<.002
HA-9	9/29/94	0.5	8.4	ND<5	ND<.002	ND<.002	ND<.002
HA-9	9/29/94	5	7.6	ND<5	ND<.002	ND<.002	ND<.002
Field Dup (HA-7)	9/29/94	0.5	8.2	ND<5	ND<.002	ND<.002	ND<.002
Field Dup (HA-4)	9/29/94	5	7.5	ND<5	ND<.002	ND<.002	ND<.002
PRG's				*	1.3	1.9	1.3

ND<5 - below laboratory detection limits
TPH - Total Petroleum Hydrocarbons
ppm - parts per million
PRG's - EPA preliminary remediation goals
* not included in PRG's

TABLE 11.2
CONCENTRATIONS OF METALS IN SOIL (ppm)
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA

			California Assessment Manual (CAM) suite of total metals (ppm)															
Sample Location	Date Sampled	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HA-1	9/29/94	0.5	<.76	<10	96	0.46	<2	17	8.2	26	22	<.25	<2.6	12	<.5	<.3	<20	31	58
HA-1	9/29/94	3	<.76	<10	110	0.48	<2	18	7.8	28	<10	<.25	<2.6	14	<.5	<.3	<20	31	47
HA-2	9/29/94	0.5	<.76	<10	74	0.34	<2	11	6.4	18	<10	<.25	<2.6	14	<.5	<.3	<20	22	33
HA-2	9/29/94	3	<.76	<10	82	0.42	<2	16	7.4	30	<10	<.25	<2.6	8.9	<.5	<.3	<20	29	43
HA-3	9/29/94	0.5	<.76	<10	84	0.41	<2	14	7.9	19	<10	<.25	<2.6	11	<.5	<.3	<20	28	55
HA-3	9/29/94	3	<.76	<10	110	0.52	<2	19	12	26	<10	<.25	<2.6	15	<.5	<.3	<20	35	58
HA-4	9/29/94	0.5	<.76	<10	110	0.51	<2	19	10	26	<10	<.25	<2.6	15	<.5	<.3	<20	36	48
HA-4	9/29/94	5	<.76	<10	110	0.56	<2	20	12	26	<10	<.25	<2.6	15	<.5	<.3	<20	39	49
HA-5	9/29/94	0.5	<.76	<10	100	0.48	<2	19	10	23	<10	<.25	<2.6	16	<.5	<.3	<20	36	47
HA-5	9/29/94	5	<.76	<10	95	0.49	<2	16	8.7	33	<10	<.25	<2.6	13	<.5	<.3	<20	35	51
HA-6	9/29/94	0.5	<.76	<10	110	0.5	<2	18	10	23	<10	<.25	<2.6	14	<.5	<.3	<20	33	45
HA-6	9/29/94	5	<.76	<10	99	0.46	<2	18	10	27	<10	<.25	<2.6	14	<.5	<.3	<20	36	47
HA-7	9/29/94	0.5	<.76	<10	110	0.51	<2	19	11	29	<10	<.25	<2.6	16	<.5	<.3	<20	36	48
HA-7	9/29/94	5	<.76	<10	99	0.49	<2	20	11	41	<10	<.25	<2.6	15	<.5	<.3	<20	36	55
HA-8	9/29/94	0.5	<.76	<10	100	0.48	<2	18	11	32	<10	<.25	<2.6	12	<.5	<.3	<20	33	49
HA-8	9/29/94	5	<.76	<10	100	0.52	<2	19	11	30	<10	<.25	<2.6	14	<.5	<.3	<20	38	52
HA-9	9/29/94	0.5	<.76	<10	100	0.49	<2	18	10	27	<10	<.25	<2.6	14	<.5	<.3	<20	35	47
HA-9	9/29/94	5	<.76	<10	94	0.46	<2	17	11	41	<10	<.25	<2.6	15	<.5	<.3	<20	35	52
Field Dup HA-7	9/29/94	0.5	<.76	<10	110	0.4	<2	18	9.7	26	<10	<.25	<2.6	15	<.5	<.3	<20	35	47
Field Dup HA-4	9/29/94	5	<.76	<10	110	0.57	<2	21	5.4	26	<10	<.25	<2.6	15	<.5	<.3	<20	41	50
10X STLC			150	50	1000	7.5	10	5600	800	250	50	2	3500	200	10	50	70	240	2500
TTLC			500	500	10000	75	100	2500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000

ND<2 - below laboratory detection limit
ppm - parts per million
STLC - Soluble Threshold Limit Concentration
TTLC - Total Threshold Limit Concentration

TABLE 11.3
CONCENTRATION OF CHEMICALS DETECTED IN CONCRETE (ppm)
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA

		Volatile organic compounds (VOC's) by EPA Method 8240/8260 (ppm)			
Sample Location	Date Sampled	Acetone	Ethyl Benzene	Total Xylene	4-Methyl-2-Pentanone
HA-4	9/29/94	0.34	ND<.0005	ND<.0015	ND
HA-5	9/29/94	0.6	0.003	0.025	0.018
HA-6	9/29/94	0.39	0.001	0.009	0.02
HA-7	9/29/94	0.03	ND<.0005	ND<.0015	ND
HA-8	9/29/94	0.09	ND<.0005	ND<.0015	0.004
HA-9	9/29/94	0.13	ND<.0005	ND<.0015	0.003
HA-13	9/29/94	0.11	ND<.0005	0.005	ND
HA-14	9/29/94	0.14	ND<.0005	0.001	ND
PRG's (ppm)		2600	3400	980	*

ND - Not Detected (no laboratory detection limit)
ND<.005 - below laboratory detection limit
ppm - parts per million
PRG's - EPA priliminary remediation goals
* not an agency regulated chemical

TABLE 11.4
SUMMARY OF FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES

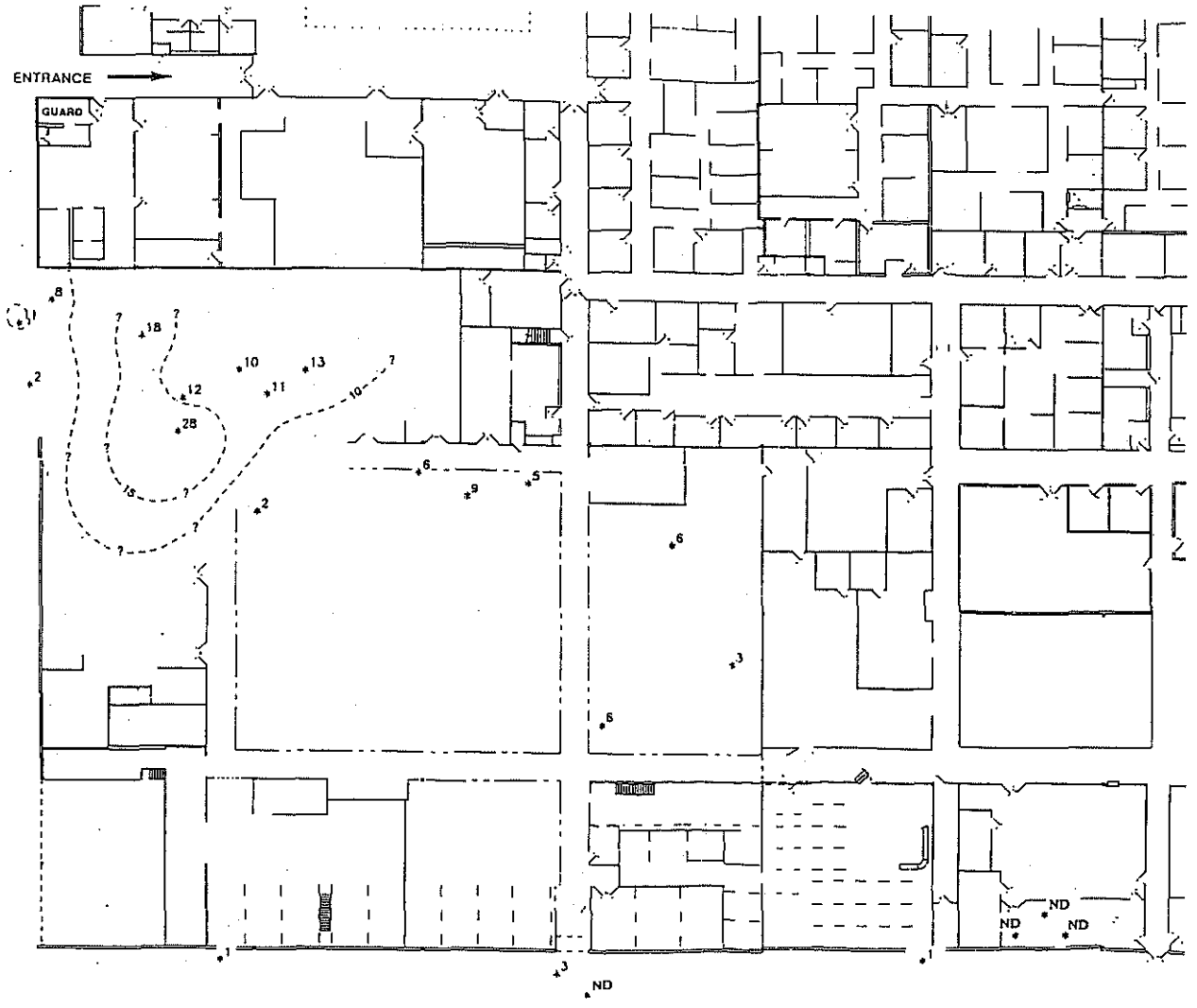
HUGHES TRAINING FACILITY A-45
1200 EAST SAN BERNARDINO ROAD, WEST COVINA, CALIFORNIA

PROBE NUMBER	PROBE DEPTH (ft.)	SAMPLING DATE(S)	SAMPLIN G EVENTS	1,1-DCE (ug/L)	TCA (ug/L)	TCE (ug/L)	PCE (ug/L)
SG1-5	5	09/28/94	1	ND<1	8	ND<1	ND<1
SG2-5	5	09/28/94	1	ND<1	11	ND<1	ND<1
SG2-15	15	09/29/94	1	ND<1	18	ND<1	ND<1
SG3-5	5	9/27/94	1	ND<1	6	ND<1	ND<1
SG4-5	5	9/27/94	1	ND<1	9	ND<1	ND<1
SG5-5	5	9/27/94	1	ND<1	5	ND<1	ND<1
SG6-5	5	9/27/94	1	ND<1	6	ND<1	ND<1
SG7-5	5	9/27/94	1	ND<1	3	ND<1	ND<1
SG8-5	5	9/27/94	1	ND<1	6	ND<1	ND<1
SG9-5	5	9/28/94	1	ND<1	3	ND<1	ND<1
SG10-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG11-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG12-5	5	9/27, 9/28/94	2	ND<1	ND<1	ND<1	ND<1
SG13-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG14-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG15-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG16-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG17-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG18-5	5	9/27/94	1	ND<1	2	ND<1	ND<1
SG19-5	5	9/27/94	2	ND<1	28	4	5
SG19-15	15	9/29/94	1	1	11	ND<1	ND<1
SG20-5	5	9/27/94	3	ND<1	12	1	2
SG21-5	5	9/27/94	1	ND<1	18	3	4
SG21-15	15	9/29/94	1	1	13	ND<1	ND<1
SG22-5	5	9/27/94	1	ND<1	10	ND<1	1
SG22-15	15	9/29/94	1	ND<1	10	ND<1	ND<1
SG23-7	7	9/27/94	2	ND<1	11	ND<1	ND<1
SG24-5	5	9/27/94	1	ND<1	13	ND<1	ND<1
SG24-15	15	9/29/94	1	2	12	ND<1	ND<1
SG25-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1
SG26-5	5	9/28/94	1	ND<1	1	ND<1	1
SG27-5	5	9/28/94	1	ND<1	1	ND<1	ND<1
SG28-5	5	9/27/94	1	ND<1	ND<1	ND<1	ND<1
SG29-5	5	9/27/94	1	ND<1	ND<1	ND<1	ND<1
SG30-5	5	9/27/94	1	ND<1	ND<1	ND<1	ND<1
SG31-5	5	9/28/94	1	ND<1	2	ND<1	ND<1
SG32-5	5	9/28/94	1	ND<1	ND<1	ND<1	ND<1

Note: Concentrations reported are the highest detected in each probe.

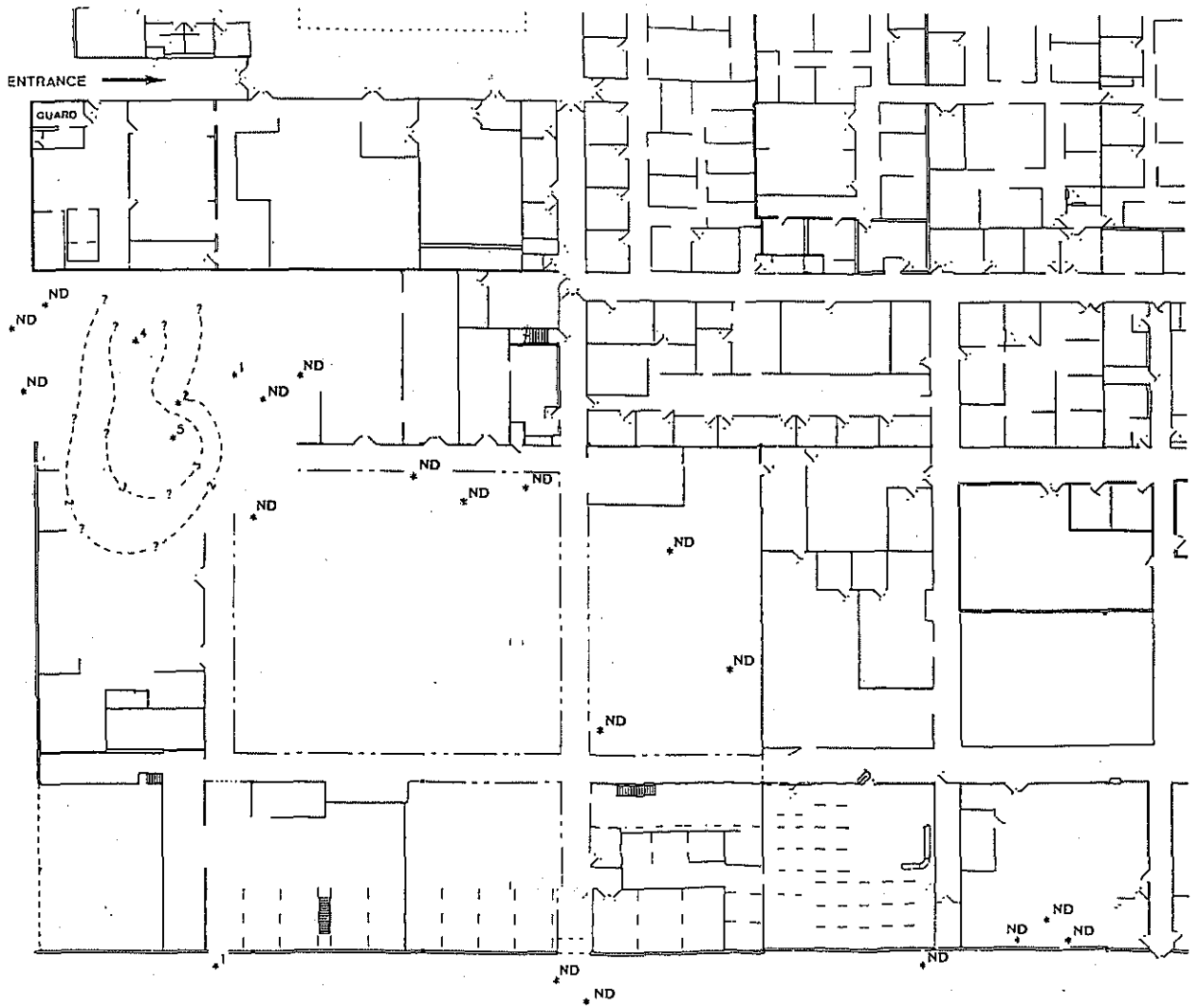
(ug/L) = micrograms per liter
ND = not detected
(ft.) = probe depth in feet below grade
PCE = tetrachloroethene
1,1-DCE = dichloroethene
TCA = 1,1,1-trichloroethane
TCE = trichloroethene

FIGURE 11.5
ISO-CONCENTRATION CONTOURS FOR
1,1,1-TRICHLOROETHANE AT 5-FEET
BELOW GRADE (µg/L)
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



McLaren Hart

FIGURE 11.6
ISO-CONCENTRATION CONTOURS FOR
TETRACHLOROETHENE AT 5-FEET
BELOW GRADE (µg/L)
HUGHES TRAINING INC.
WEST COVINA, CALIFORNIA



McLaren Hart

Table of EPA-IX PRGs (as of 2004) for Residential Soil

The contaminants listed below were those detected at Hughes Training Incorporated in West Covina during closure of their Hazardous Waste Storage Area in 1994

Contaminant	(mg/kg), ppm	(mg/kg), ppm	(ug/kg), ppb
DDE	1.70E+00	1.70	1,700
DDD	2.40E+00	2.40	2,400
DDT	1.70E+00	1.70	1,700
Antimony	3.10E+01	31.00	31,000
Arsenic	3.90E-01	0.39	390
Barium	5.40E+03	5,400.00	5,400,000
Beryllium	1.50E+02	150.00	150,000
Cadmium	3.70E+01	37.00	37,000
Chromium	2.10E+02	210.00	210,000
Cobalt	9.00E+02	900.00	900,000
Copper	3.10E+03	3,100.00	3,100,000
Lead	4.00E+02	400.00	400,000
Mercury	2.30E+01	23.00	23,000
Molybdenum	3.90E+02	390.00	390,000
Nickel	1.60E+03	1,600.00	1,600,000
Selenium	3.90E+02	390.00	390,000
Silver	3.90E+02	390.00	390,000
Thalium	5.20E+00	5.20	5,200
Vanadium	7.80E+01	78.00	78,000
Zinc	2.30E+04	23,000.00	23,000,000
Acetone	1.40E+04	14,000.00	14,000,000
Ethylbenzene	4.00E+02	400.00	400,000
Xylenes	2.70E+02	270.00	270,000
MIBK	5.30E+03	5,300.00	5,300,000
1,1-DCE	1.20E+02	120.00	120,000
1,1,1-TCA	1.20E+03	1,200.00	1,200,000
TCE	5.30E-02	0.05	53
PCE	4.80E-01	0.48	480

ATTACHMENT 4 – DOCUMENTS RELATING TO CHANGES IN OWNERSHIP

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

July 21, 1983

Angelo Bellomo
Chief, Permits, Surveillance and
Enforcement Section
California Department of Health Services
714 P Street
Sacramento, CA 95814

Re: Honeywell, Inc. (EPA ID No. CAD008351827)

Dear Mr. Bellomo:

Enclosed is the original Part A permit application for the referenced facility, which falls under California's Phase IIA interim authorization. The facility does not need to keep EPA informed of future activities covered under the authorization.

Sincerely yours,

William D. Wilson
Chief, Technical Assessment Section

Enclosure

cc: Nestor Acedera, LA DOHS
Howard Wright, Honeywell

Hazardous Waste Management
JUL 22 1983
Sacramento

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., 12 [illegible] nch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

EPA I.D. NUMBER

S F | C A D 0 0 8 3 5 1 8 2 7 | T/A C D

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

CAD008351827

HONEYWELL INC
1200 E SAN BERNARDINO RD
WEST COVINA, CA 91790

1200 E SAN BERNARDINO RD
WEST COVINA, CA 91790

20 NOV 1980

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area*(s)* below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: HONEYWELL INC

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 WRIGHT HOWARD SAFETY ENGINEER	213 331 0011

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 1200 E SAN BERNARDINO RD

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 WEST COVINA	CA	91790

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

6 1200 E SAN BERNARDINO RD

B. COUNTY NAME

LOS ANGELES

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 WEST COVINA	CA	91790	

(fill- in areas are spaced for elite type, i.e., 12 characters/inch). Form Approved OMB No. 158-S80004

FORM 3 RCRA — EPA

HAZ ...ONMENTAL PROTECTION AGENCY
...S WASTE PERMIT APPLICATIO
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER: F C A D 0 0 8 3 5 1 8 2 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*: YR. 6 3 | MO. 0 5 | DAY 1 9

[ ] 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN: YR. | MO. | DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES — CODES AND DESIGN CAPACITIES

A. **PROCESS CODE** — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code*(s)* in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. **PROCESS DESIGN CAPACITY** — For each code entered in column A enter the capacity of the process.

1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LI ERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G	
X-2	T03	20	E	
1	T01	(Neutralized 10 Sulfuric Acid)	U	
2	S01	200 (1,1,1, Trichloroethane)	G	
3	S01	200 (Isopropynal Alcohol)	G	
4	S01	175 (Chromium Oxide)	G	
5	S01	3 (Toluene)	G	
6	S01	5 (Xylene)	G	
7				
8				
9				
10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

NOTES:

1.) Sulfuric Acid is neutralized in a holding tank then disposed of in the Sanitation System.

2.) Chromium (IV) Oxide is a portion of the Alodine System when the Process Tank is pumped once a year and land filled.

3.) Xylene is used in several processes. The 35 gallons of liquid would be a combined total.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** – For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non–listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1): W C A D 0 0 8 3 5 1 8 2 7 | T/A: | C: 1

FOR OFFICIAL L: W DUP | T/A: | C: 2 | DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U226	8,650	P	S01	1,1,1, Trichloroethane
2	U226	6,250	P	S01	Isopropynal Alcohol (Note 1)
3	U226	11.69	T	T01	Neutralized Sulfuric Acid
4	U226	1,350	P	T01	Chromium (IV) Oxide (Note 2)
5	U220	21.5	P	S01	Toluene
6	U239	82.25	P	S01	Xylene (Note 3)
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTE (Continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

												T/A	C
C	A	D	0	0	8	3	5	1	8	2	7		6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
34° 05' 01.2"	117° 55' 00.6"

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
	C G		

X. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED

XI. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
F. L. MERTESDORF Director of Manufacturing Oper.	F L Mertesdorf	11/20/80

CAD008351827

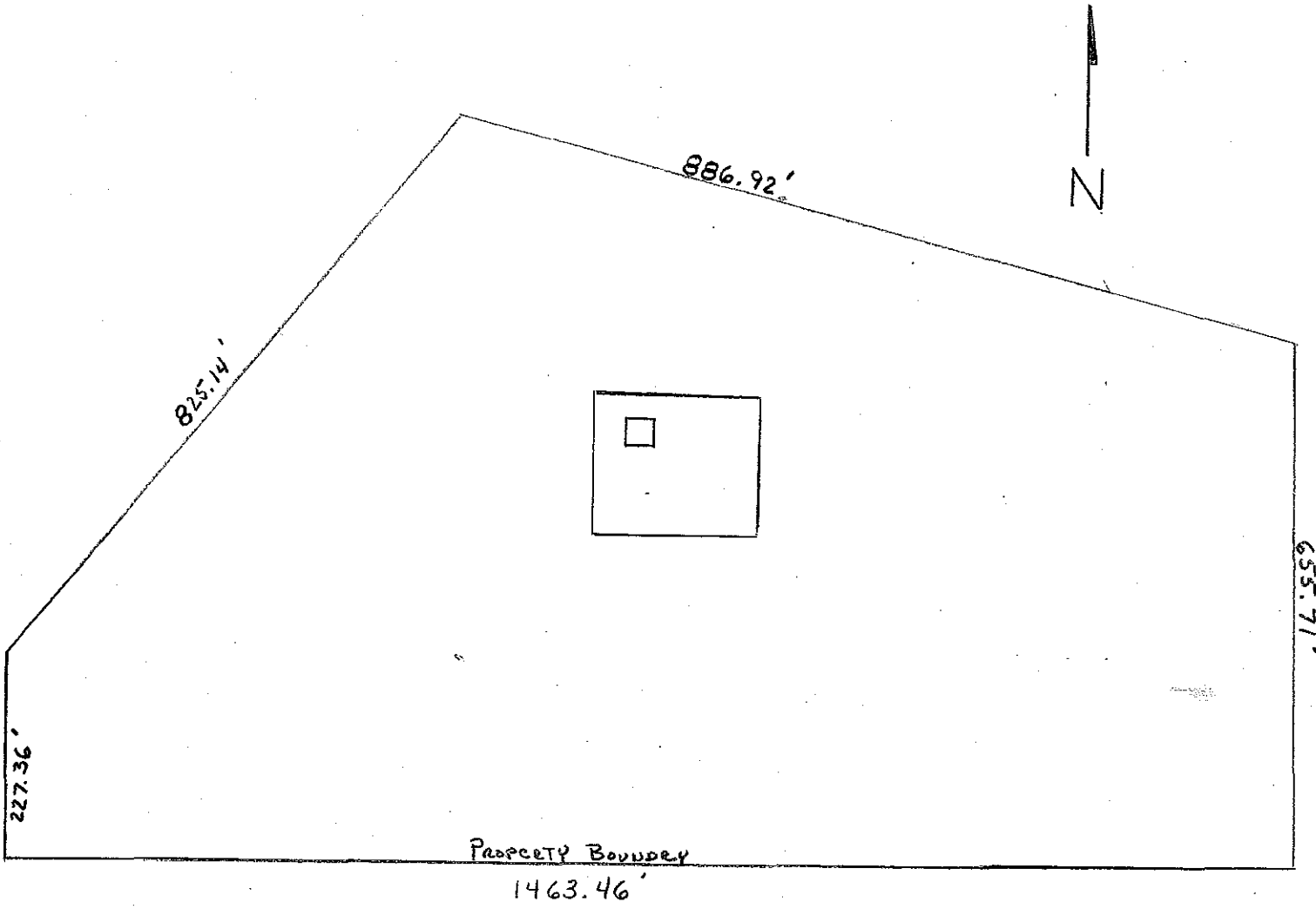
Form Approved OMB No. 158-S80004

V. FACILITY DRAWING *(see page 4)*

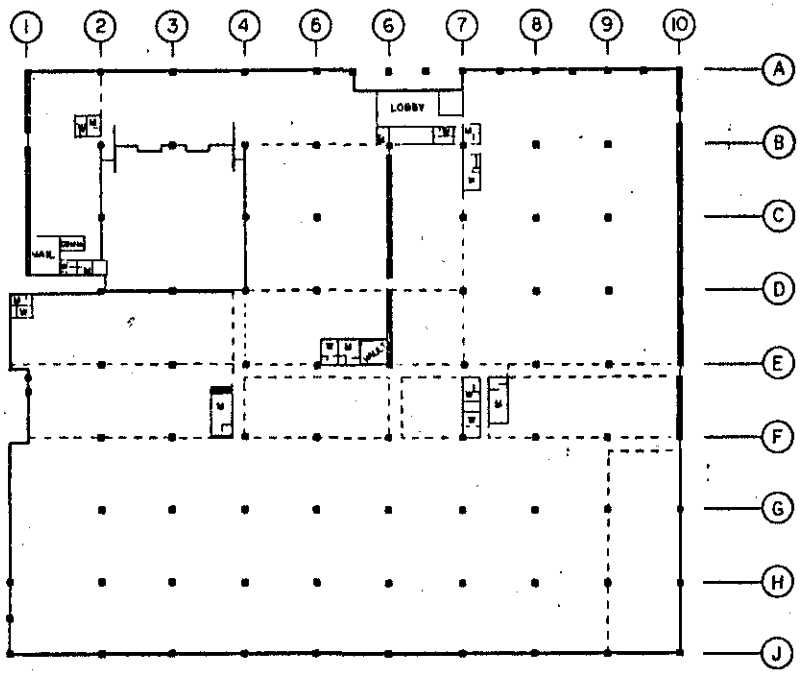
NOTES:

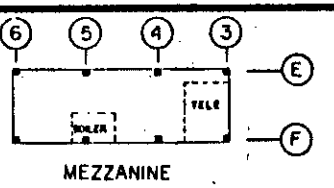
1.) Attachment I - A Plot Plan of Facility.

2.) Attachment II- A Vicinity Plan.

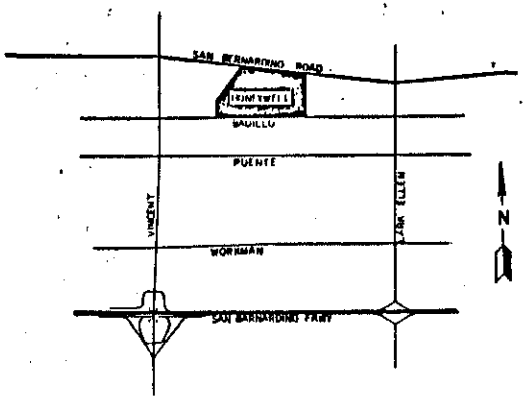


Attachment 1

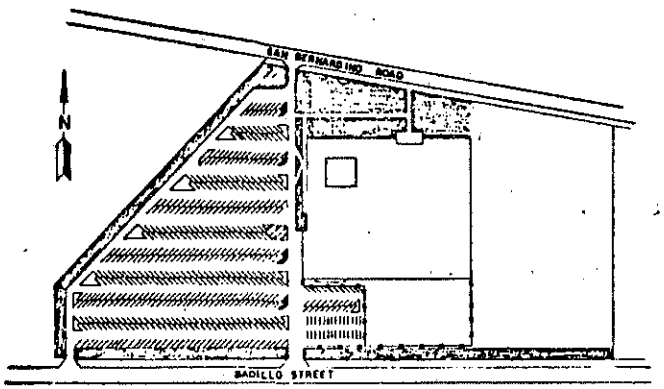


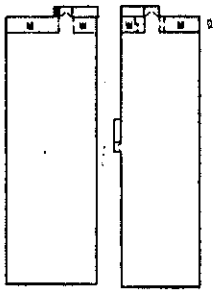


MEZZANINE



VICINITY PLAN
NO SCALE



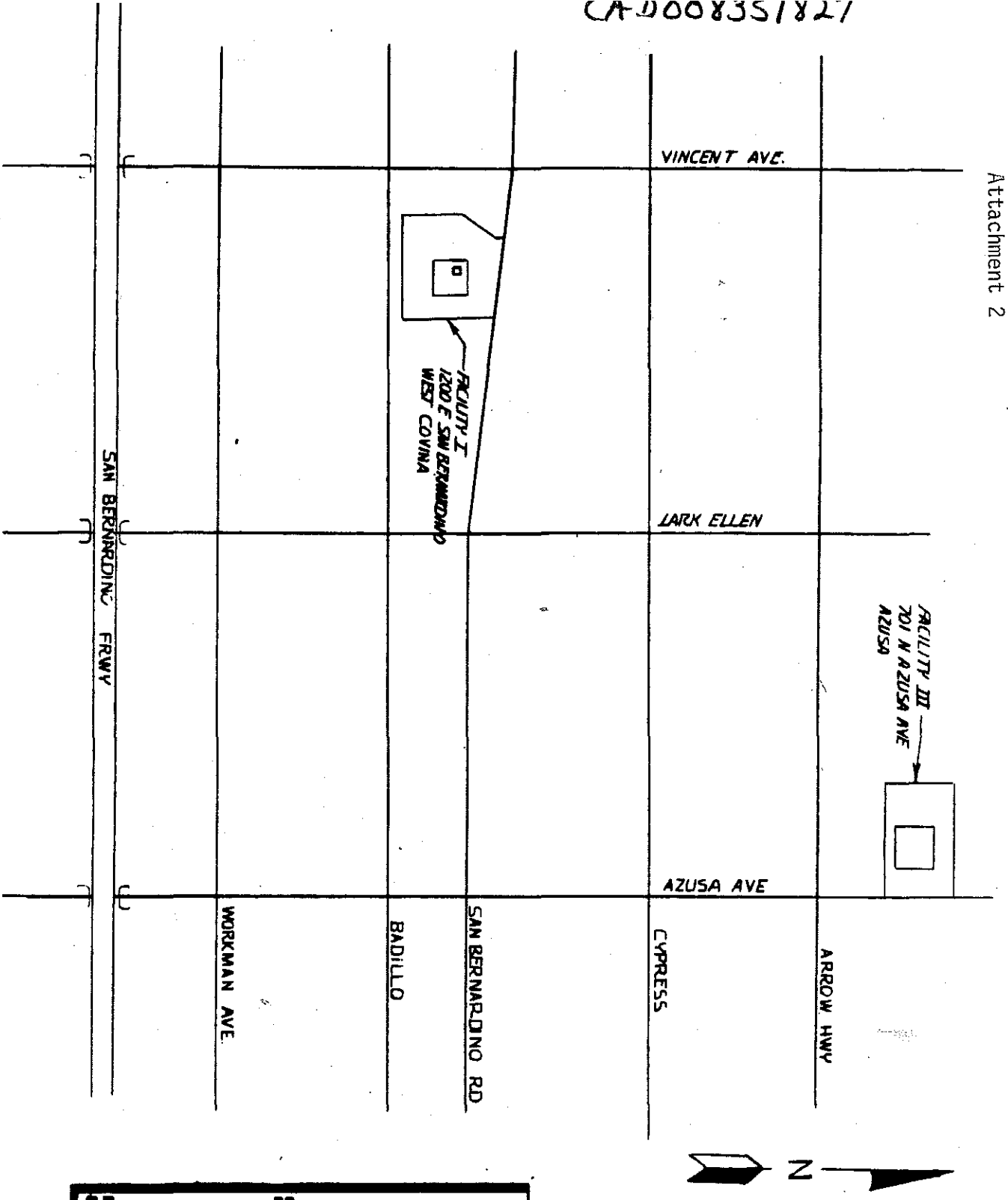


CA0008351

Honeywell

CAD008351827

Attachment 2



Honeywell MARINE SYSTEMS DIVISION

1200 E. SAN BERNARDINO RD.
WEST COVINA CALIFORNIA

PLANT ENGINEERING DEPT.

DRAWING TITLE:

DRN		DATE	
APPR		DATE	
APPR		DATE	
APPR		DATE	
APPR		DATE	

SCALE	SHEET ___ OF ___	REV

01 May 1989

State of California
Department of Health Services
Toxic Substances Control Div./Region 3
Facility Permitting Unit
1405 N. San Fernando Blvd., No. 300
Burbank, CA 91504

Attn: Scott Harris

Dear Sir:

This application is being submitted to the Department of Health Services for the following purposes:

1. Inform the department by filing an amended Part A permit, that the facility ownership for the EPA No. CAD008351827 has changed from Honeywell Inc. to Hughes Simulation Systems Inc.

2. Provide the department with any updated information concerning the facility.

Your earliest review of this request and issuance of an interim status document would be appreciated.

Thanking you in advance for your cooperation in this matter.

Questions concerning this matter should be directed to H.G. Wright, (818) 915-9226.

Date / /

Scott Harris
Hazardous Material Specialist

Date / /

Howard G. Wright
Environmental Engineer

GENERAL (Read the "General Instructions" before starting.)

LABEL (TYPE)

I. EPA I.D. NUMBER

II. [illegible] (LITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X" YES	MARK "X" NO	MARK "X" FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: HUGHES SIMULATION INC.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 WRIGHT HOWARD G.	818 915 9226

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX	B. CITY OR TOWN	C. STATE	D. ZIP CODE
3 1200 E SAN BERNARDINO RD.	4 WEST COVINA	CA	91790

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
5 1200 E. SAN BERNARDINO RD.	LOS ANGELES	6 WEST COVINA	CA	91790	

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3699 Light Manufacturing	
C. THIRD	**D. FOURTH**

VIII. OPERATOR INFORMATION

A. NAME

HUGHES SIMULATION INC.

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL, M = PUBLIC (other than federal or state), S = STATE, O = OTHER (specify), P = PRIVATE

P

D. PHONE (area code & no.)

818 915 9226

E. STREET OR P.O. BOX

1200 E. SAN BERNARDINO RD.

F. CITY OR TOWN	G. STATE	H. ZIP CODE
WEST COVINA	CA	91790

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
N	P
B. UIC (Underground Injection of Fluids)	**E. OTHER** (specify)
U	(specify)
C. RCRA (Hazardous Wastes)	**E. OTHER** (specify)
R CAD008351827	(specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., 12 cha ers/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

S												T/A	C
F	C	A	D	0	0	8	3	5	1	8	2	7	1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C	YR.	MO.	DAY
8			

☐ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☒ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES — CODES AND DESIGN CAPACITIES

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.

1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

S														T/A	C
C	D	U	P												1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G	
X-2	T03	20	E	
1	S01	300 (1,1,1 Trichlorethane)	G	
2	S01	250 (Isoprpyl Alcohol)	G	
3	S01	350 (chromium(VI)oxide)	G	
4	S01	35 (xylene)	G	
5	S01	600 (cutting fluids)	G	
6	S01	350 (oils)	G	
7	T01	40 (sulfuric acid)	U	
8	S01	175 (nitric acid)	G	
9	S01	200 (paint thinners)	G	
10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

NOTES

1. Chromium oxide is contained in combination with sulfuric acid as an alodine process.
2. The 600 gallons of machine cutting fluid and oils are California regulated waste only.
3. The 40 gallon/day sulfuric acid is used as an etching process on rubber, held in a containment tank, treated to a neutral point and then disposed of in the sanitation system.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY – For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non–listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each **listed** hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate **all** the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.
2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				*included with above*

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY													
S	W	C	A	D	0	0	8	3	5	1	8	2	7	T/A	C	S	W	DUP							T/A	C	DUP
	1	2											13	14	15		1	2						13	14	15	23 - 26

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
	23 - 26	27 - 35	36	27 - 29 / 27 - 29 / 27 - 29 / 27 - 29	
1	F001	850	G	S01	1,1,1 Trichloroethane is recycled
2					initially and the still bottoms
3	F002	900	G	S01	are then landfilled. A mixture blend of paint thinners,
4					paint pigment, xylene & solder flu>
5	----	1200	G	S01	California regulated only waste;
6					oil (Calif. Code 221)
7	----	3500	G	S01	California regulated only waste;
8					machining oils containing no
9	D002	10,000	G	T01	heavy metals (Calif. code 221) Neutralized sulfuric acid disposed
10					of at the sanitation district
11	D002	175	G	S01	treatment facility. Nitric acid from a plating operatic
12	F001	35	G	S01	Xylene waste
13	U032	350	G	S02	Chromic acid from a plating operati
14					is barrelled, sent for treatment
15	D001	275	G	S01	& disposal of still bottoms. Isopropyl alcohol is collected ,
16					stored, sent offsite for recylcing
17					& disposal of still bottoms.
18					
19					
20					
21					
22					
23					
24					
25					
26					

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTE *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

													T/A	C
F	C	A	D	0	0	8	3	5	1	8	2	7		6

V. FACILITY DRAWING

All **existing** facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
34 05 012	117 55 006

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Stuart Moore	Stuart D. Moore	4/28/89

Form Approved OMB No. 158-S80004

V. FACILITY DRAWING *(see page 4)*

- See Attachment I, for plot plan.
- See Attachment II, for vicinity plan.
- See Attachment III, for topographic map.

ATTACHMENT I

SCALE: 1" = 100'

LEGEND

( ) DENOTES RECORD DISTANCES AND BEARINGS PER LEGAL DESCRIPTION

FD. L & T PER R/S 99/40

S79°31'08"E 2351.84'

NW COR. LOT 32

SAN BERNARDINO ROAD

FD. 2" I.P. TAGGED L.S. 3948 NO REC.

S 79°31'01"E 893.50' (S79°31'08"E 893.15')

FD. L & T PER R/S 99/40 TAGGED L.S. 2350 2.0' N. ON LINE

FD. 88 & W PER T.A. 34625, RB. , PG.

N85°15'19"E 359.97'

FD PUNCH MARK ON MANHOLE COVER PER R/S 99/40

VINCENT AVENUE

N0°00'00"E 1101.23'

WEST LINE LOT 32

N0°01'49"E 682.08'

N45°17'34"E 816.97' (N45°16'22"E 816.78')

AREA TO 6' OFFSET
690,253.15 sq.ft. 15.846 AC.
AREA TO 25' OFFSET
703,336.40 sq.ft. 16.151 AC.

EXIST. BUILDING

AREA TO 5' OFFSET
235,313.38 sq.ft. 5.402 AC.
AREA TO 25' OFFSET
222,030.13 sq.ft. 5.097 AC.

N0°15'15"E 638.41'

S0°25'40"E 638.63' (S0°27'31"E 638.75')

LARKELLEN AVENUE

S0°23'26"E 719.51'

FD. 2" I.P. TAGGED L.S. 3548 NO REC.

(N0°00'00"E 217.44')
N0°03'58"E 217.59'

FD. 2" I.P. TAGGED L.S. 2988 NO REC.

8' OFFSET FROM BLDG.

25' OFFSET FROM BLDG

TRANSFORMER

FD. 2" I.P. TAGGED L.S. 2350 PER R/S 99/40

N89°39'10"E 1464.26' (N89°38'56"E 1463.72')

BADILLO STREET

N89°38'56"W 2675.29'

FD. L & T PER R/S 99/40

FD PUNCH MARK ON MANHOLE COVER PER R/S 99/40

ALL AREAS HAVE BEEN CALCULATED FROM RECORD INFORMATION

JAMES S BUTLER L.S. 4282

KAMWILL SURVEYORS, INC.

Bakersfield
17 H Street
Bakersfield, Ca. 93304
(805) KAMWILL

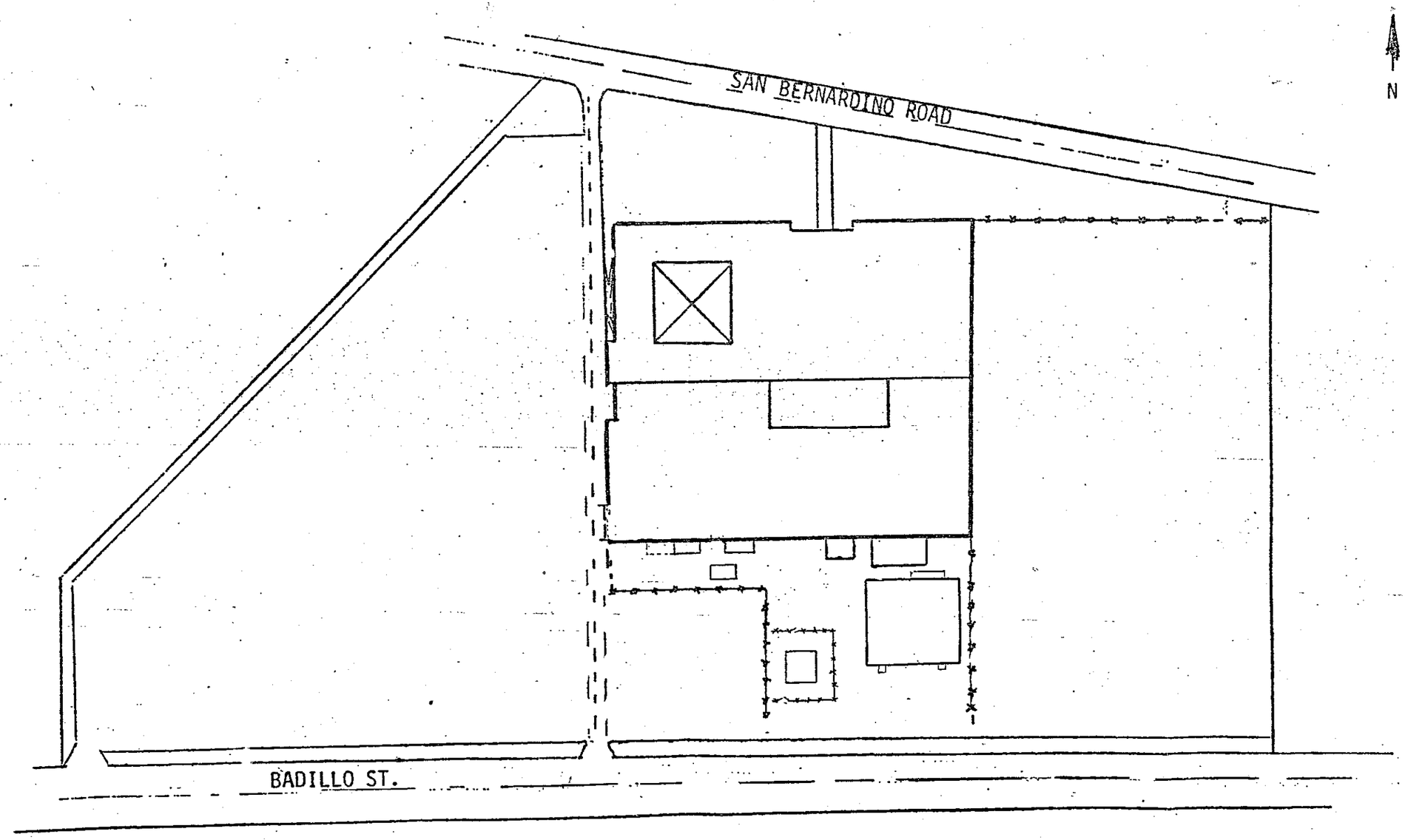
Adelanto
11720 Bartlett Ave., Ste. H
Adelanto, Ca. 92301
(619) 246-4600

HONEYWELL INC.
1200 EAST SAN BERNARDINO ROAD
WEST COVINA CA.

Designed by : J.BUTLER
Drawn by : M.HERNANDEZ
Checked by :
DATE : OCTOBER 21 1988

SHEET 1 OF 1

Job # 88426



1200 E. SAN BERNARDINO ROAD
WEST COVINA, CALIF.

ATTACHMENT II

SEC. 15 T.1.S. R-10-W

R.S. 60-49

SEE 15-10

SEE 14-12

SEE 15-1

67 THRU. 104

SEE ENLARGED ATTACHMENT

TRX 0076

LOT 4 por.

VACATED

4.261 ACRES

2.249 ACRES

TRACT NO. 34625

M.B. 905-89/90

LOT 3 por.

SAN BERNARDINO

CITY OF COVINA

ROAD

VINCENT

GUTTER

CLARK

ELLEN

CITY OF COVINA

W. R. ROW AND OF TRACT

M.R. 42-45

PHILLIPS TRACT

M.R. 9-36

1.18±AC.

2.55±AC.

6.95±AC.

3.90±AC.

1.94±AC

20.74±AC.

2.22±AC.

0.86±AC

0.39±AC

0.58±AC

15' Storm Drain Easement

BADILLO STREET

ELGENIA AVENUE

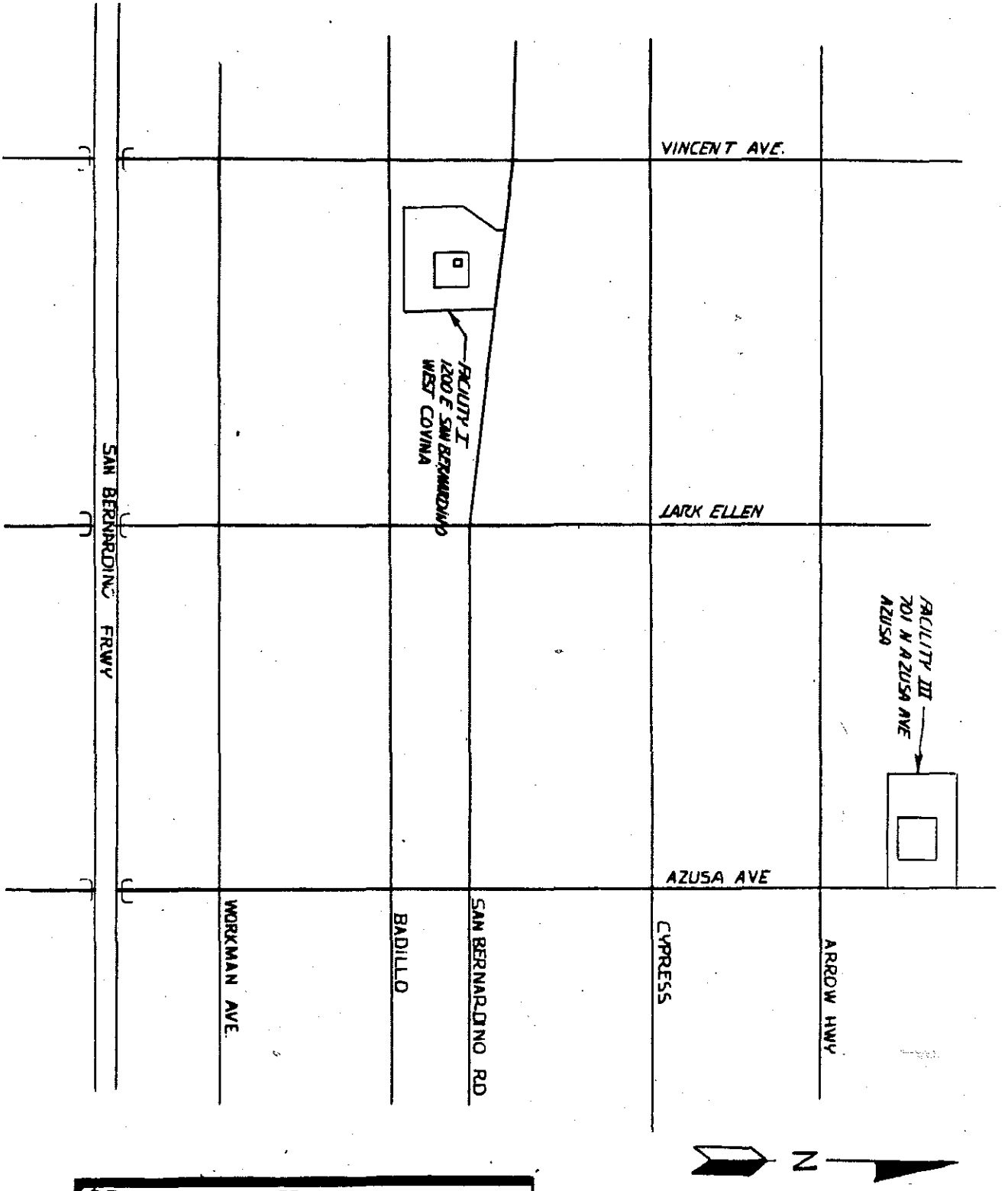
CARROL AVE

GROVE CENTER SCHOOL

300 FOOT RADIUS MAP

HONEYWELL

1200 E. SAN BERNARDINO RD



Honeywell MARINE SYSTEMS DIVISION

1200 E. SAN BERNARDINO RD.
WEST COVINA CALIFORNIA

PLANT ENGINEERING DEPT.

DRAWING TITLE:

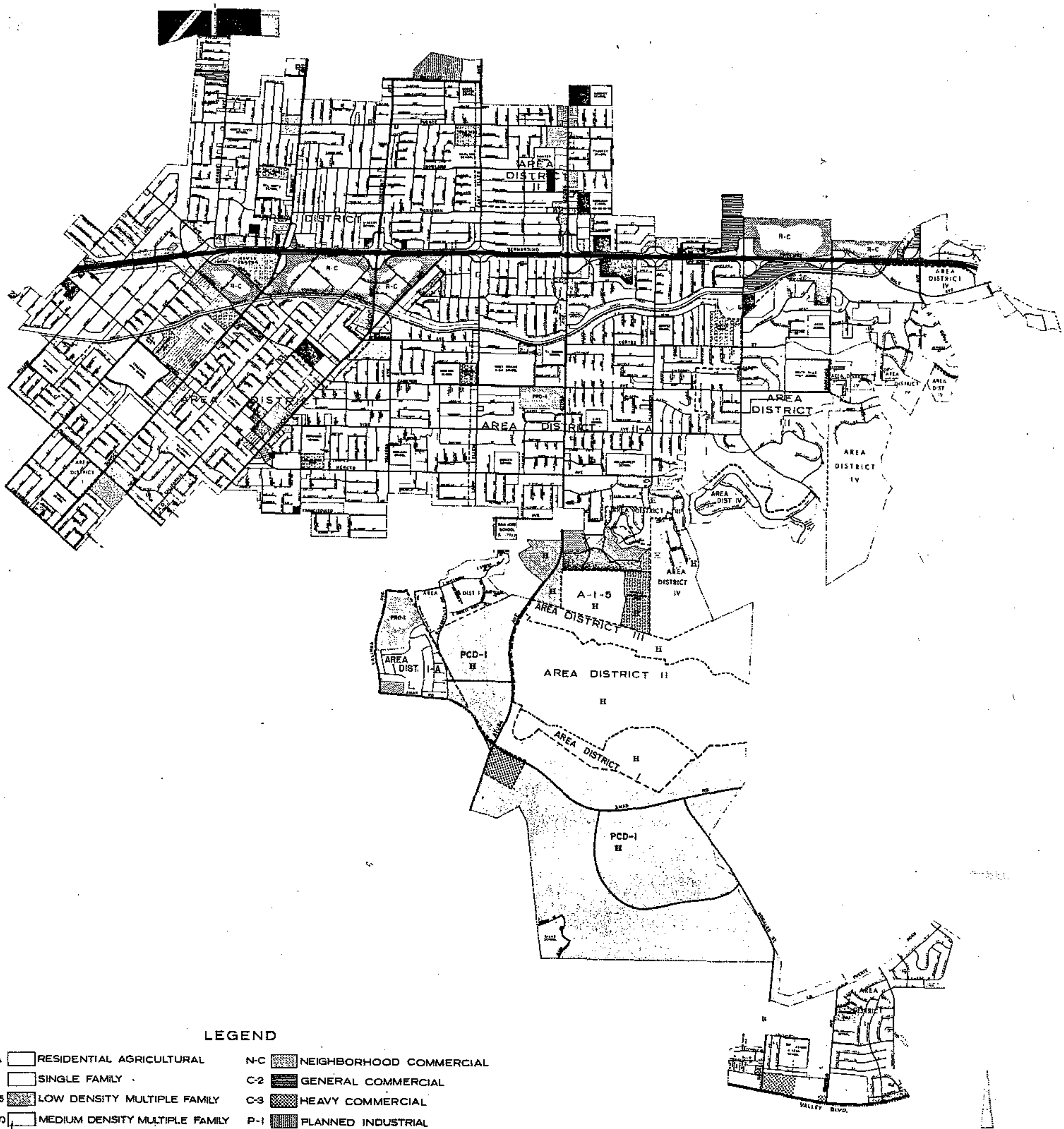
DRN		DATE	
APPR		DATE	
APPR		DATE	
APPR		DATE	
APPR		DATE	

SCALE	SHEET	REV
	___ OF ___	

epa
Caltics
Cohalt

ATTACHMENT III

CITY OF WEST COVINA



LEGEND

R-A	RESIDENTIAL AGRICULTURAL	N-C	NEIGHBORHOOD COMMERCIAL
R-1	SINGLE FAMILY	C-2	GENERAL COMMERCIAL
MF 15	LOW DENSITY MULTIPLE FAMILY	C-3	HEAVY COMMERCIAL
MF 20	MEDIUM DENSITY MULTIPLE FAMILY	P-1	PLANNED INDUSTRIAL
MF 45	HIGH DENSITY MULTIPLE FAMILY	M-1	MANUFACTURING
O-P	OFFICE PROFESSIONAL	P-B	PUBLIC BUILDING
R-C	REGIONAL COMMERCIAL	S-C	SERVICE COMMERCIAL
H	"H" OVERLAY ZONE	PCD	PLANNED COMMUNITY DEVELOPMENT

I, ROBERT FLOTTEN, CITY CLERK OF THE CITY OF WEST COVINA, HEREBY CERTIFY THAT THIS ZONING MAP WAS DULY ADOPTED AS A PART OF THE WEST COVINA MUNICIPAL CODE BY ORDINANCE NO. 998

PASSED: 12 JUNE 1967
EFFECTIVE: 13 JULY 1967

Robert Flotten
CITY CLERK OF THE CITY OF WEST COVINA
BY Lela W. Preston
DEPUTY CITY CLERK

ZONING MAP

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY GEORGE DEUKMEJIAN, *Governor*

DEPARTMENT OF HEALTH SERVICES

TOXIC SUBSTANCES CONTROL DIVISION (REGION 3)
1405 N. SAN FERNANDO BOULEVARD, SUITE 300
BURBANK, CA 91504

JUN 08 1989

Mr. Howard G. Wright
Environmental and Safety Engineer
Hughes Simulation Systems Incorporated
1200 East San Bernardino Road
West Covina, CA 91790

Dear Mr. Wright:

CHANGE OF OWNERSHIP OF INTERIM STATUS FACILITY, HUGHES SIMULATION SYSTEMS INCORPORATED, EPA ID# CAD 008351827

The Department has received your letter and revised Part A Application dated May 1, 1989 which announces the change of Interim Status facility ownership from Honeywell Inc. to Hughes Simulation Systems Inc..

Please refer to Title 22, California Code of Regulations, Section 66389(b)(5), which specifies the requirements and conditions regarding change of ownership of interim status facilities. This section states that the new owner must establish compliance with the financial requirements of Article 17 of the above regulations and is responsible for all other interim status duties associated with the facility upon transfer of ownership.

Because interim status is transferred to the new owner with change of facility ownership and submittal of a revised Part A Application, Hughes Simulation Incorporated is an interim status facility and must comply with interim status standards as specified in Articles 17 through 31 in Title 22 of the California Code of Regulations.

Should you have any questions, please contact Scott Harris of this office at (818) 567-3143.

Sincerely,

John A. Hinton, P.E., Chief
Facility Permitting Unit

JAH:SH:sh

cc: See next page

cc: Paul Blais
State of California Department of Health Services
Toxic Substances Control Division
714/744 P Street
Sacramento, CA 94234-7320

Eve Levin
Office of Waste Programs
EPA, Region IX
215 Fremont Street
San Francisco, CA 94105

Richard Castle
Financial Responsibility Unit
State of California Department of Health Services
Toxic Substances Control Division
714/744 P Street
P.O. Box 942931
Sacramento, CA 94234-7320

Ralph Lopez
Los Angeles County Department of Health Services
Public Health Programs and Services
313 North Figueroa Street
Los Angeles, CA 90012

JUL 2 1991

HUGHES

JUL 23 1991

HUGHES TRAINING, INC., WEST COVINA OPERATIONS

U.S. EPA
75 Hawthorne St.
San Francisco, CA 94105
ATTN: PRC (H-3-4)

Date: 11 July 1991

Subject: Revised Part A Application - Hughes Training, Inc., West Covina, CA
Notification of Regulated Waste Activity - Hughes Training, Inc., Azusa, CA

Dear Sir:

As per your request (enclosed with this letter), please find the revised Part A application and Notice of Regulated Waste Activity for the Hughes Training, Inc. facility located in West Covina, California. Please note that the name of the facility was changed from Hughes Simulation Systems, Inc. to Hughes Training, Inc. Attachments to the Part A application were provided with previous submittals.

In addition, please find a first Notification of Regulated Waste Activity for the Hughes Training, Inc. facility located in Azusa, California. This facility consists of a building used for the final assembly of electrical equipment. Small quantities of spent paint products are generated during occasional use of a paint booth.

Should you have any questions, please contact me at (818) 915-9530.

Ernest Biacsi
Quality System Manager

cc: John A. Hinton, P.E.
Facility Permitting Unit
Department of Health Services
Toxic Substances Control Division (Region 3)
1405 N. San Fernando Blvd., Suite 300
Burbank, CA 91504

P-6

JUN 5 - 1991

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

EPA ID# CAD008351827

RE: Return of RCRA Part A Hazardous Waste Permit Application

The Environmental Protection Agency has reviewed your RCRA Part A application. The items that are marked on the attached facility checklist and/or have been circled in red on your returned application need to be corrected and/or completed. You must review the items that are noted and return the corrected form before we can process your application. If corrections are made on the original form you must initial changes (s). We have also have enclosed a blank copy of the Part A Form if you need to make substantial changes. Note: Federal regulations require that all RCRA Part A applications submitted to EPA have an original signature.

Please return your Part A application with the requested information and/or changes to:

U.S. EPA
75 Hawthorne Street
San Francisco, CA 94105
ATTN: PRC (H-3-4)

You should also send a corrected copy of your Part A to the appropriate state regulatory agency. If you have questions you may contact Tracy Randle at (415) 744-1484. Thank you for your cooperation.

Sincerely,

Bill Brooks

Bill Brooks
Planning Research Corporation
U.S. EPA Region IX

enclosure

cc: CA DHS NV DEP
AZ DEQ HI DHS

Printed on Recycled Paper

FACILITY PART A CHECKLIST

Facility Name Honeywell Inc.

EPA ID# CAD 008 351 837

Additional Information Required

( ) Facility Address ( ) Operator Information (X) Date
( ) Mailing Address (X) Original Signature ( ) Owner ( ) Certification

( ) Incorrect Unit(s) for process code(s) in Design Capacity:

( ) Incorrect Unit(s) for waste code(s) on Estimated Annual Quantity:

( ) Amounts of the same Process Codes in Design Capacity must be totaled. Although you may have several units which are the same process, the database requires the total capacity reflected on the Part A.

( ) Amounts for each Waste Code (streams) in Estimated Annual Quantity must be totaled.

( ) Photographs. Must clearly delineate all existing structures, existing storage, treatment and disposal units. Indicate EPA ID# and date taken on back of photos.

( ) Facility Drawing. Must show floor or ground plan of facility. Drawing should be to scale with the boundaries of the units labeled and their dimensions provided. Indicate EPA ID# on drawing.

(over)

( ) Map. Must be topographical and extend at least one mile beyond property boundaries of the facility. Location of the facility should be clearly marked on the map. Indicate EPA ID# on map. Maps can be obtained from the:

U.S. Geological Survey Office, 345 Middlefied Rd.
Menlo Park, CA 94025 (415) 323-8111

( ) Coordinates. Latitude and longitude of the facility must be provided. Please make sure all numbers are reflected in coordinates.

( ) Standard Industrical Codes (SIC) must be provided.

(X) Other

Please fill out the enclosed Part A Application and return it with an original signature and date.

Please print or type with ELITE type (1 racters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

For EPA Regional Use Only

Date Received
Month Day Year

EPA
United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the Instructions before starting)

For State Use Only

I. ID Number(s)

A. EPA ID Number	B. Secondary ID Number *(if applicable)*
CAD008351827	

II. Name of Facility

HUGHES TRAINING INC.

III. Facility Location *(Physical address not P.O. Box or Route Number)*

A. Street: 1200 E. SAN BERNARDINO ROAD

Street *(continued)*:

City or Town	State	ZIP Code
WEST COVINA	CA	91791-1098

County Code *(if known)*	County Name
	LOS ANGELES

B. Land Type *(enter code)*	C. Geographic Location: LATITUDE *(degrees, minutes, & seconds)*	C. Geographic Location: LONGITUDE *(degrees, minutes, & seconds)*	D. Facility Existence Date: Month Day Year
P	34 05 01.2	117 55 00.6	05 18 1963

IV. Facility Mailing Address

Street or P.O. Box: SAME AS ABOVE

City or Town	State	ZIP Code
SAME AS ABOVE		-

V. Facility Contact *(Person to be contacted regarding waste activities at facility)*

Name *(last)*	*(first)*
BIACSI	ERNEST

Job Title	Phone Number *(area code and number)*
QUALITY SYS MGR	818-915-9530

VI. Facility Contact Address *(See instructions)*

A. Contact Address Location	A. Contact Address Mailing
X	

B. Street or P.O. Box:

City or Town	State	ZIP Code
		-

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

EPA I.D. Number *(enter from page 1)*: CAD008351827

Secondary ID Number *(enter from page 1)*:

VII. Operator Information *(see instructions)*

Name of Operator: HUGHES TRAINING INC.

Street or P.O. Box: 1200 E SAN BERNARDINO ROAD

City or Town: WEST COVINA

State: CA

ZIP Code: 91791-1098

Phone Number *(area code and number)*:

B. Operator Type: P

C. Change of Operator Indicator: Yes X No

Date Changed Month Day Year: 01 01 89

VIII. Facility Owner *(see instructions)*

A. Name of Facility's Legal Owner: HUGHES TRAINING INC.

Street or P.O. Box: 1200 E SAN BERNARDINO ROAD

City or Town: WEST COVINA

State: CA

ZIP Code: 91790-1098

Phone Number *(area code and number)*: 818-915-9530

B. Owner Type: P

C. Change of Owner Indicator: Yes X No

Date Changed Month Day Year: 01 01 89

IX. SIC Codes *(4-digit, in order of significance)*

Primary	Secondary
3699 (description) Electrical Equipment	(description)
Secondary	**Secondary**
(description)	(description)

X. Other Environmental Permits *(see instructions)*

A. Permit Type (enter code)	B. Permit Number	C. Description
N	2916	Permit for Industrial Waste Water Discharge
		LA County Sanitation Districts
E	065503	Permit to Operate
		South Coast Air Quality Management District

EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)											
C	A	D	0	0	8	3	5	1	8	2	7												

XI. Nature of Business (provide a brief description)

Hughes Training Inc. is primarily a government contractor, building weapon fire control systems and equipment for military training. General production areas of the facility include a machine shop, a welding shop, an alodine process unit, an electronic assembly area, two degreasing units, and a paint booth.

XII. Process - Codes and Design Capacities

A. **PROCESS CODE** - *Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in item XIII.*

B. **PROCESS DESIGN CAPACITY** - *For each code entered in column A, enter the capacity of the process.*

1. **AMOUNT** - *Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.*
2. **UNIT OF MEASURE** - *For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.*

C. **PROCESS TOTAL NUMBER OF UNITS** - *Enter the total number of units used with the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	DISPOSAL:	
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY
D80	LANDFILL	ACRE-FEET OR HECTARE-METER
D81	LAND APPLICATION	ACRES OR HECTARES
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	STORAGE:	
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS
S02	TANK	GALLONS OR LITERS
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	TREATMENT:	
T01	TANK	GALLONS PER DAY OR LITERS PER DAY
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR
T04	OTHER TREATMENT (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in item XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
GALLONS PER HOUR	E
GALLONS PER DAY	U
LITERS	L
LITERS PER HOUR	H
LITERS PER DAY	V
SHORT TONS PER HOUR	D
METRIC TONS PER HOUR	W
SHORT TONS PER DAY	N
METRIC TONS PER DAY	S
POUNDS PER HOUR	J
KILOGRAMS PER HOUR	R
CUBIC YARDS	Y
CUBIC METERS	C
ACRES	B
ACRE-FEET	A
HECTARES	Q
HECTARE-METER	F
BTU's PER HOUR	K

EPA I.D. Number (enter from page 1): C A D 0 0 8 3 5 1 8 2 7

Secondary ID Number (enter from page 1):

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number		A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
X	1	S 0 2	600	G	0 0 2	
X	2	T 0 3	20	E	0 0 1	
	1	S 0 1	300(1,1,1 Trichloroethane)	G	0 0 2	
	2	S 0 1	250 (Isopropyl Alcohol)	G	0 0 5	
	3	S 0 1	350 (Chromium Oxide)	G	0 0 1	
	4	S 0 1	35 (Xylene)	G	0 0 1	
	5	S 0 1	600 (Cutting Fluids)	G	0 1 1	
	6	S 0 1	350 (Oils)	G	0 0 7	
	7	T 0 1	40 (Sulfuric Acid)	U	0 0 1	
	8	S 0 1	175 (Nitric Acid)	G	0 0 1	
	9	S 0 1	200 (Paint Thinners)	G	0 0 4	
1	0					
1	1					
1	2					

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. TREATMENT PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
	T 0 4				
	T 0 4				
	T 0 4				
	T 0 4				

EPA I.D. Number (enter from page 1)											Secondary ID Number (enter from page 1)											
C	A	D	0	0	8	3	5	1	8	2	7											

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - *Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.*

B. ESTIMATED ANNUAL QUANTITY - *For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.*

C. UNIT OF MEASURE - *For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:*

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. *Enter the first two as described above.*
2. *Enter "000" in the extreme right box of Item XIV-D(1).*
3. *Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).*

2. PROCESS DESCRIPTION: *If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).*

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. *Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.*
2. *In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.*
3. *Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.*

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS (1) PROCESS CODES (enter)	D. PROCESS (2) PROCESS DESCRIPTION (if a code is not entered in D(1))
X 1	K 0 5 4	900	P	T 0 3 D 8 0	
X 2	D 0 0 2	400	P	T 0 3 D 8 0	
X 3	D 0 0 1	100	P	T 0 3 D 8 0	
X 4	D 0 0 2				Included With Above

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0248-EPA-OT

EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)											
C	A	D	0	0	8	3	5	1	8	2	7												

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F 0 0 1	850	G	S 0 1	
2	F 0 0 2	900	G	S 0 1	
3	D 0 0 2	10,000	G	T 0 1	
4	D 0 0 2	175	G	S 0 1	
5	F 0 0 1	35	G	S 0 1	
6	U 0 3 2	350	G	S 0 1	
7	D 0 0 1	275	G	S 0 1	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					

EPA I.D. Number *(enter from page 1)*: C A D 0 0 8 3 5 1 8 2 7

Secondary ID Number *(enter from page 1)*:

XIV. Description of Hazardous Waste *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 6.

Line Number	Additional Process Codes (enter)

XV. Map

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature: S. I. Moore — Date Signed: 7/18/91

Name and Official Title *(type or print)*: S. I. Moore, Executive Vice President and General Manager

Operator Signature: S. I. Moore — Date Signed: 7/18/91

Name and Official Title *(type or print)*: S. I. Moore, Executive Vice President and General Manager

XIX. Comments

Attachments were provided with previous submittal

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to instructions for more information)

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-OT

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

EPA Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received (For Official Use Only)

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

[ ] A. First Notification [X] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number: CAD008351827

II. Name of Installation *(Include company and specific site name)*

HUGHES TRAINING INC.

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 1200 E SAN BERNARDINO ROAD

Street (continued):

City or Town: WEST COVINA | State: CA | ZIP Code: 91791-1098

County Code: | County Name: LOS ANGELES

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box: 1200 E SAN BERNARDINO ROAD

City or Town: WEST COVINA | State: CA | ZIP Code: 91791-1098

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(last)*: BIACSI | *(first)*: ERNEST

Job Title: QUALITY SYS MGR | Phone Number *(area code and number)*: 818-915-9530

VI. Installation Contact Address *(See Instructions)*

A. Contact Address Location: [X] Mailing: [ ]

B. Street or P.O. Box:

City or Town: | State: | ZIP Code:

VII. Ownership *(See Instructions)*

A. Name of Installation's Legal Owner: HUGHES TRAINING INC

Street, P.O. Box, or Route Number: 1200 E SAB BERNARDINO ROAD

City or Town: WEST COVINA | State: CA | ZIP Code: 91791-1098

Phone Number *(area code and number)*: 818-915-9530

B. Land Type: P | C. Owner Type: P | D. Change of Owner Indicator: Yes [X] No [ ] | (Date Changed) Month: 01 Day: 01 Year: 89

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 10-31-9
GSA No. 0246-EPA-O

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [X] a. Greater than 1000kg/mo (2,200 lbs.)
   - [ ] b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs.)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

   Mode of Transportation
   - [ ] 1. Air
   - [ ] 2. Rail
   - [ ] 3. Highway
   - [ ] 4. Water
   - [ ] 5. Other - specify
3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.
4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Burner - Indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
5. [ ] Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Markerer
   - [ ] c. Burner - Indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
2. [ ] Specification Used Oil Fuel Marketer (or On-site Burner) Who First Claims the Oil Meets the Specification

IX. Description of Regulated Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. EP Toxic (D000)	(List specific EPA hazardous waste number(s) for the EP Toxic contaminant(s))
X	X			

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1	2	3	4	5	6
F001	F002	U032			
7	**8**	**9**	**10**	**11**	**12**

C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
[signature]	S.I. Moore, Executive Vice President and General Manager	7/18/91

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

ATTACHMENT 5 – DTSC LETTERS AND GSU MEMO

F CALIFORNIA — CALIFORNIA ENVIRONME PROTECTION AGENCY

PETE WILSON, Governor

PARTMENT OF TOXIC SUBSTANCES CONTROL

N. GRANDVIEW AVENUE
ENDALE, CA 91201
(818) 551-2800

M E M O R A N D U M

TO : Maria Fabella

FROM : Phil Chandler

DATE : September 29, 1994

SUBJECT: **SITE VISIT - HUGHES TRAINING CENTER (HTIC), WEST COVINA, SEPTEMBER 29, 1994**

Observations at HTIC on this date indicated that soils underlying the regulated unit are clear with respect to vapor phase volatile organic compounds (VOCs). Some seven soil gas probes had been employed, samples drawn, and analyses performed within the vicinity of the unit. They have indicated non-detect (ND) for vapor phase VOCs.

It is, therefore, unlikely that any significant VOC contaminant mass exists at that location or that soil matrix results will reveal any significant VOC contamination. Although this does not guarantee that other semi- or non-volatile compounds were not discharged, it is an indication that such could be the case, since VOCs are most frequently discharged and most mobile.

The interior of the building exhibits a VOC spatial pattern which is likely associated with previous waste discharge(s) from the degreasing/clarifier area. At relatively shallow depths of 5-7 feet, the greatest reported concentration was 28 μ/l. This dropped off laterally in several directions and became ND for the exterior probes of the array. Clearly, waste discharge at this area was demonstrated and it was recommended to HTIC staff (Michael Mitchell) that deeper vapor samples should be obtained in this area to assure that vertical extent was only minimal and that concentrations did not increase with depth. However, this was merely a suggestion and with the regulated unit not exhibiting evidence of a VOC release, in all likelihood this part of the site could be passed off to other "interested agencies" for subsequent confirmation of vertical extent. It was indicated to HTIC that questions would likely arise from those agencies regarding this waste discharge.

RECOMMENDATIONS

Several recommendations can be made as a result of this site visit:

- Since the regulated unit exhibited ND on all vapor probes in the array covering the area in and around it, no Tedlar bag sample needs to be sent to a fixed laboratory for confirmation of compounds identified. This observation was verbally communicated to Michael Mitchell (HTIC) at the site as being a GSU recommendation which would be made to the Department's project manager.

- A few deeper soil vapor samples should be obtained and analyzed from within the building proper. This may be deferred to "Correction Action" but if HTIC does it now, there may be no need to initiate "Corrective Action". It may also be deferred to the other interested agencies --- Department takes care of closing the regulated unit and transfer "lead" to anyone else interested.

- The number of soil matrix samples previously proposed to be obtained and analyzed should be reduced. Given that the soil vapor probe array around the regulated unit came up ND, it is unlikely that soil matrix samples at the same area would reveal any VOC contamination. Moreover, the number of VOC analyses projected for the 6 soil samples to be taken within the regulated unit should also be reduced. A maximum of 4 VOC soil matrix analyses would now be sufficient to complement the soil gas results.

- The soil matrix samples external to the HWSA proper along the stained area extending from the southwest corner, the soil matrix sample 20 feet to the east of the drum storage and the soil sample at the entry ramp can be reasonably eliminated from the soil matrix sampling plan.

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

November 18, 1994

CERTIFIED MAIL

Mr. Joe W. Teel
Principal Engineer
Safety, Health & Environmental Affairs
Quality Assurance
Hughes Training Incorporated/RC 7000
Loc. ARL, Bldg. A-30, MS 110
2200 Arlington Downs Road
P.O. Box 6171
Arlington, TX 76005-6171

Dear Mr. Teel:

CLOSURE PLAN APPROVAL - HUGHES TRAINING, INC., WEST COVINA, CALIFORNIA, EPA ID CAD008351827

The California Environmental Protection Agency, Department of Toxic Substances Control (Department) has completed its internal and public review of the Closure Plan for the Hughes Training, Inc. (HTI) on-site hazardous waste storage facility in West Covina, California. Based on this analysis, the Department has determined that the modifications listed in Attachment A, are necessary for the Department to approve the Closure Plan. The Department hereby approves the Closure Plan with the attached modifications dated November 1994 and its subsequent California Environmental Quality Act (CEQA) Negative Declaration.

The public comment review period for the Closure Plan and the CEQA Negative Declaration ended on July 29, 1994. During the public comment period, the Department received comments and recommendations from the Federal Environmental Protection Agency, in a letter dated July 29, 1994, and the California Regional Water Quality Control Board - Los Angeles Region, in a letter dated July 29, 1994. The Three Valleys Municipal Water District, in letters dated July 28, 1994, signed by Jim Palm, and July 29, 1994, signed by Maxine Leicher, requested the Department for an extension of the public comment period. The Department granted the request and extended the public comment period which ended in September 6, 1994. In a letter dated September 2, 1994, during the extension period, the Department received comments from the City of West Covina.

The Department has responded to all comments received in its Response to Public Comments document (Attachment B). The responses by the Department are final decisions. This modified Closure Plan approval requires that the comments and recommendations received are to be addressed in your closure activities, as explained in the Response to Public Comments document. Moreover, the approval of the modified Closure Plan is based on the premise that the information submitted in the modified Closure Plan is accurate and

the activities will be implemented as specified in the approved document and the Response to Public Comments document.

The HTI Closure Plan was submitted in May 1994 and subsequently amended in November 1994. On June 9, 1994, the HTI draft Closure Plan was considered to be technically complete in accordance with Title 22, California Code of Regulations (22 CCR), Section 66265.112(b).

Pursuant to 22 CCR 66265.112(d)(1), HTI shall notify the Department in writing at least 45 days prior to the date on which HTI expects to begin final closure of the facility. Upon implementation of all closure activities, a written certification is required from HTI and an independent qualified professional engineer registered in California to verify that the hazardous waste facility has been closed in accordance with the approved modified Closure Plan. The original signed certifications and copy of the documents supporting the independent qualified professional engineer's certification must be submitted to the Department by registered mail, no later than 60 days after the completion of final closure.

This letter and attached modifications shall accompany the Closure Plan dated May 1994 in the repositories and all files to show the final Department approved closure. HTI may also submit a final document incorporating these modifications for the Administrative Record.

If you have any questions regarding this letter, please contact Maria Fabella of my staff at (818) 551-2918.

Sincerely,

Jose Kou, Chief
Facilities Management Branch

Certified Mail
P 142 999 322
Return Receipt Requested

Enclosure

cc: Greg Lovato
U.S. EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

cc: (continued)

David Wysocki
Government Services Librarian
West Covina Regional Library
1601 West Covina Parkway
West Covina, CA 91790

Gregory S. Taylor
Project Manager
Waste and Water Programs
Corporate SHEA
Bldg. C01, MS A159
P.O. Box 80028
Los Angeles, CA 90080-0028

P 142 999 322

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to: Joe Teel - SHEA/QA
Street and No.: Hughes Training Inc. /RC
P.O., State and ZIP Code: ARL, Bldg. A-30, MS110 7000
2400 Arlington Downs Road
P.O. Box 6171
Arlington, TX 76005-6171

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form 3800, June 1991

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

MODIFICATIONS TO THE CLOSURE PLAN DATED MAY 1994

FOR THE

HUGHES TRAINING, INCORPORATED
1200 EAST SAN BERNARDINO ROAD
WEST COVINA, CA 91791

EPA ID# CAD008351827

PREPARED BY:

THE CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
REGION 3 - GLENDALE

NOVEMBER 1994

I N T R O D U C T I O N

A revised Hazardous Waste Facility Closure Plan for the closure of the Hughes Training, Inc. (HTI) facility, submitted on May 1994, has been modified by the Department of Toxic Substances Control (Department), in accordance with Sections 66265.112 (b)(3)(4)(5)(8) of the California Code of Regulations, Title 22, Division 4, Chapter 30 (22 CCR).

The Modified Closure Plan will consist of the facility Closure Plan dated May 1994 and the Closure Plan modification prepared by the Department. The Closure Plan modification includes considerations addressed in the following comments received during the Public Comment period which is June 30 to July 29, 1994 and the extended Public Comment period which is August 5, to September 6, 1994:

- U.S. Environmental Protection Agency dated July 29, 1994;
- California Regional Water Quality Control Board - Los Angeles Region dated July 29, 1994; and
- City of West Covina, dated September 2, 1994

The Modified Closure Plan shall be the approved Closure Plan which HTI must implement to properly close the HTI Hazardous Waste Storage Area (HWSA).

HUGHES TRAINING, INC.
1200 EAST SAN BERNARDINO ROAD
WEST COVINA, CA 91791

EPA ID # CAD008351827

MODIFICATIONS TO THE CLOSURE PLAN DATED MAY 1994

Modification #1: Section 2.3 Hydrogeological Conditions. The following language has been added:

Average depth to groundwater in wells within a two-mile radius of the HTI facility is approximately 184.7 feet (Los Angeles Department of Public Works, Well #3051, March 25, 1994).

Modification #2: Section 2.3 Hydrogeological Conditions, Water Quality in the San Gabriel Basin (regarding six volatile compounds most commonly occurring in groundwater e.g. 1,1,1-TCA, 1,1-DCE, 1,2DCA, TCE, PCE, and CTC). The following language has been added:

These compounds have been used by the HTI facility but there is no evidence at this time to suggest that the chemicals used at HTI have impacted groundwater.

Modification #3: Figure 2-3 Topographic Map

Figure 2-3 will be modified to show a two mile radius.

Modification #4: Figure 2-5 Areas of Contamination in Relation to HTI Facility.

Figure 2-5 will be modified to show production wells and standby wells within a two-mile radius of the facility. The owners of these wells and the service areas of these water purveyors are identified in the added Table 2.1.

Modification #5: Section 3.2 Types and Quantities of Hazardous Waste. The following language has been added:

Information gathered from the Department of Public Works indicate that there are no perched nor semi-perched aquifers in this area due to the lack of significant confining layers. Depth to water in this area is approximately 184.7 feet. Furthermore, there are no historical records of intentional or unintentional releases at the facility nor is there analytical evidence to suggest releases of a magnitude that could have impacted the groundwater depth.

Modification #6: Section 5 Estimate and Management of maximum Inventory. The following language has been added:

During the time that the HWSA was operated, wastes were collected in the various process areas of the plant prior to transfer to the HWSA. Process tank and sump fluids were collected in drums and transferred to the HWSA, along with empty or partially full original containers, or in five-gallon cans of waste. Drums and containers were transported by a variety of material handling devices including carts, hand trucks, pallet jacks, drum dollys, and forklifts. No visual evidence or documentation of on-site hazardous disposal has been found. This information was used in selecting sampling locations which were approved by the DTSC.

Modification #7: Section 6b Sampling Plan for Characterization of Waste Generated During Closure. This section has been modified to read:

- Twelve discrete concrete cores will be collected: one from each of the six sumps and three from other areas where flows in concrete or chemical handling could have resulted in releases to the underlying soil. When applicable, cores from the bays will be collected in areas where cracks or stains were noted. Otherwise, cores will be collected from the center of each bay.

- The cores will be pulverized under strict laboratory guidelines and were extracted at reduced temperatures to reduce the potential loss of volatile chemicals from samples.

Modification #8: Section 8 Soil Sampling Plan. This section has been modified and included in the Sampling Plan to read:

- Soil samples will be collected from the sumps prior to demolition of the HWSA. Once concrete coring is completed, two samples of the underlying soil will be collected from each sump. The first sample will be collected from below the HWSA concrete/soil interface, and the second will be collected from a depth of five feet below ground surface (bgs).

- Soil samples will also be collected from three locations just outside the HWSA building. At each location, soil samples will be collected from two depths. The first sample will be collected from below the asphalt/soil interface, and the second

sample will be collected from a depth of five feet bgs.

Modification #9: Section 8 Soil Sampling Plan. The following language has been added:

Sample locations where no record of history of excavations may have occured were chosen and identified under the direction of DTSC.

Modification #10: Section 8 Soil Sampling Plan. The following language has been added:

In addition to soil sampling within and around the HWSA, three background locations will be sampled. Each was located within the facility boundaries, in areas not known to be affected by operations. Background locations will be picked in accordance with recommendations from the DTSC at locations away from the flow line of potential source areas of chemicals that might impact soil.

Modification #11: Section 8 Soil Sampling Plan. A language that the Final Closure Report will include the following language has been added:

Field *Logbooks*: The sampling team leader maintained a field logbook that contains all information pertinent to the field sampling plan and included as a minimum:

- Percent recovery of soil in brass tube
- Document the soil matrix log

Boring logs bearing the signature and stamp of a California Registered Geologist, are included in Appendix C. The technical report was also stamped and signed by a California Registered Geologist.

Modification #12: Section 8 Soil Sampling Plan. The following language has been added:

- Samples will be placed in a cooler immediately after collection and maintained at approximately 4°C. The condition samples will be inspected prior to extraction. Problems caused by packaging and shipment will be noted and reported. Samples will be packaged for shipment as follows:
  - Seal drain plug in cooler;

- Place vermiculite or styrofoam peanuts in bottom;
- Wrap glass bottles with bubble wrap or styrofoam wrapping; place inside Ziplic-type plastic bags and place in cooler;
- Soil samples collected in brass tubes will be double-sealed in Ziploc-type bags to exclude potential moisture from the cooler;
- Add ice in double-bagged Ziploc plastic bags to prevent leakage of water;
- Fill with vermiculite, styrofoam peanuts, or bubble wrap;
- Ice will be contained in double-sealed plastic bags to ensure no free water is present in the sample cooler.

Modification #13: Section 9.2 EPA-Approved Test Methods. The following language has been added:

- Soil samples collected from sampling locations HA-1 through HA-9, including the two field duplicate samples and the equipment blank sample, at 0.5 feet and 5.0 feet will be analyzed using the following methods:"

- Volatile Organic Compounds (VOCs) by EPA Method 8240/8260. Low level practical quantification limits (PQLs) will be used as detection limits. For VOCs, PQLs will range from 0.5 t+ 1.0 ppb, except for bromomethane which will have a PQL of 2.0 ppb.

- Title 22 metals CAC 6010/7000 series. Specific PQLs for each metal will be shown in summary analytical data tables.

- Organochlorine pesticides and PCBs by EPA Method 608/8080. PQLs will range from between 1 to 20 ppb depending on the chemical. Specific PQLs for each chemical will be shown when the data are reported in the Closure Plan.

- Total petroleum hydrocarbons (TPH) by EPA Method 418.1. PQLs will be reported as above.

Modification #14: Section 9 Analytical Test Methods. The following language has been added:

Soil gas samples are to be analyzed in the field by a mobile laboratory equipped with a Varian-3400 GC equipped with photo-ionization detector (PID) and an electrolytic conductivity detector (ELCD) placed in series. These detectors are to be used to analyze soil gas samples for VOCs including aromatic and halogenated hydrocarbons using a method similar to EPA Method 8010/8020.

For the constituents of concern, concentrations detected in soil samples are to be screened against the following criteria:

- pH: comparable to background

Modification #15: Section 10 Groundwater Sampling and Monitoring Plan. The Section is modified to read:

No groundwater sampling and monitoring program is planned as part of this closure based on the results of a soil vapor survey which was performed prior to closure.

Modification #16: Section 11 Closure Performance Standards (Cleanup Levels). The Section is modified to include the following language:

The closure acknowledgement by the DTSC will remove the facility from classification as a Treatment Storage Disposal Facility (TSDF) but does not preclude the statement that Solid Waste Management Units no longer exist. Should soil gas and soil matrix sampling identify soil contamination resulting from unregulated units not addressed by the Closure Plan, remediation of soils will be proposed per the clean-up levels required by the DTSC.

Modification #17: Appendix A Max of N. This section will be not be a part of the Closure Plan since sample locations and sample number will be determined with DTSC oversight based on the results of a soil vapor survey and soil matrix sampling.

Modification #18: Appendix B Statistical Strategies - HWSA (Rectangular or Irregular Shapes). This section will be not be a part of the Closure Plan since sample locations and sample number will be determined with DTSC oversight based on the results of a soil vapor survey and soil matrix sampling.

Modification #19: Table 8-1 Sampling Procedures and Sampling Tool Decontamination Procedures. This section is modified to include the following language:

- The second brass sleeve will be colected from 3 foot depth. No 5 foot depth samples will be collected from the background locations.

Modification #20: Table 8-1 Sampling Procedures and Sampling Tool Decontamination Procedures. This section is modified to delete the following language:

- Spray rinse with reagent grade methanol.

Modification #21: Table 8-2 Analysis, Sample Container, Preservation Methods, and Holding Times. This section will be modified to include TPH Analysis, and hereby identified as Table 8-3.

Modification #22: Soil Gas Sampling Procedures and Sampling Tool Decontamination Procedures will be described in Table 8-2.

Modification #23: Soil Gas Sampling Locations at the Hazardous Waste Storage Area will be illustrated in an additional figure identified as Figure 8-3.

Modification #24: San Gabriel Basin Cities and Water Purveyors obtained from the San Gabriel Basin Water Quality Authority will be added and identified as Table 2.1.

ATTACHMENT B

RESPONSE TO PUBLIC COMMENTS DOCUMENT

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

November 18, 1994

Mr. Wayne Praskins
Superfund Project Manager
U.S. Environmental Protection
Agency - Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

RE: RESPONSE TO COMMENTS/RECOMMENDATION - U.S. ENVIRONMENTAL PROTECTION AGENCY REVIEW OF THE DRAFT CLOSURE PLAN FOR THE HUGHES TRAINING, INC., 1200 EAST SAN BERNARDINO ROAD, CAD008351827

Dear Mr. Praskins:

Thank you for your comments and recommendation regarding the Hughes Training, Inc. (HTI) draft Closure Plan and the proposed Negative Declaration, dated July 29, 1994.

The Department, in its desire to address the U.S. EPA's and the California Regional Water Quality Board's concerns on possible soil gas contamination at the site, required HTI, prior to the Closure Plan approval, to perform soil gas investigation of both the regulated unit which is Hazardous Waste Storage Area (HWSA) and the interior of the former manufacturing building. As noted in your letter, VOCs were utilized onsite. The Department required HTI to perform soil gas sampling of TCE, TCA, as well as other VOCs. On September 29, 1994, under the Department's oversight, onsite analyses of samples taken at the HWSA indicated non-detect for the vapor phase VOCs. In view of such analyses, it is:

- unlikely that soil matrix samples would reveal contamination, therefore, the number of soil matrix samples for VOCs underlying the HWSA is most likely to be reduced; and
- groundwater monitoring will not be necessary.

Soil matrix samples for other hazardous waste constituents at the HWSA, however, will be performed.

Soil gas sampling analyses indicated that the interior of the former manufacturing building exhibited a VOC pattern which is likely to be associated with discharge from the degreasing/clarifier area. It was recommended that deeper vapor samples be obtained. Groundwater monitoring requirement pending future soil gas analyses is unwarranted at this time. At any rate, the Department will consider any contamination outside the HWSA as a Solid Waste management Unit (SWMU), an area of concern, which may be addressed through a corrective action process, if there is evidence of contamination.

If there is additional soil or soil gas information from Honeywell or other sources, please forward that information to us. The Department will followup on the investigation you reported by Honeywell.

At this time, the Department is finalizing the Modified Closure Plan of the HTI regulated unit. Your comments/recommendation, and the Department's corresponding response will be part of this project's administrative records.

Thank you for your concerns on this project.

Sincerely,

Yolanda M. Garza

Yolanda M. Garza
Unit Chief
Facilities Management Branch

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, Governor

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

November 18, 1994

Mr. Arthur G. Heath
Environmentalist Specialist IV
California Regional Water
Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

RESPONSE TO COMMENTS - REVIEW OF DRAFT CLOSURE PLAN PACKAGE FOR THE HUGHES TRAINING, INC., 100 EAST SAN BERNARDINO ROAD, WEST COVINA, CA 91791, CAD 008 351 827

Dear Mr. Heath:

Thank you for your comments dated July 29, 1994, regarding the Hughes Training, Inc. (HTI) draft Closure Plan package. The Department has reviewed your comments and has summarized its response following the format in your July 29, 1994 letter.

I. Comment: EARTH

o Comment #1: Hazardous Waste Storage Area (HWSA) was in operation from 1981 to 1993. Although there are no records of spills during the active life of the facility, the length of time that the HWSA was in operation (approximately 12 years) and the amount of chemicals that were stored in this area (maximum capacity of the storage area was 4, 180 gallons) indicates that unintentional waste discharge(s) may have occurred. As a result, subsurface investigation(s) should be performed to ensure that the soil beneath this area has not been impacted.

DTSC Response: Length of storage and quantity of chemicals stored are not factors the Department considers to prove that hazardous substances\waste were discharged in to the media. Nevertheless, the Department has enhanced its sampling in the HWSA as a precaitionary measure.

o Comments #2: The proposed number of soil borings (five) and their depths (3 feet below ground surface) may not be sufficient to delineate the full extent of the contamination. Additional borings extending down to the capillary fringe may be necessary to delineate the vertical and horizontal extent of the non-vapor phase contamination.

DTSC Response: On a site visit by our Geological Staff on September 29, 1994, it was observed that some soil gas probes were employed and

samples drawn within and around the HWSA and the former manufacturing building. Analyses of samples taken at the HWSA indicated non-detect for the vapor phase VOCs. In view of such analyses, it is:

- unlikely that soil matrix samples would reveal contamination, therefore, the number of soil matrix samples for VOCs underlying the HWSA is most likely to be reduced; and
- groundwater monitoring will not be necessary.

Soil matrix samples for other hazardous constituents at the HWSA, however, will be performed.

- Comment #3: Records indicate that waste solvents used in the degreasing operations were stored in this area. Therefore, a multi-level soil gas survey may be necessary to determine the extent of the vapor phase contamination in the soil.

  DTSC Response: The Department, in its desire to address concerns on possible soil gas contamination at the site, required HTI, prior to Closure Plan approval, to perform soil gas investigation of both the regulated unit and the interior of the former manufacturing building. During our Geological Staff site visit on September 29, 1994, soil gas sampling analyses indicated that the interior of the former manufacturing building (unregulated area) exhibited a VOC pattern which is likely to be associated with discharge from the degreasing/ clarifier area. It was recommended that deeper vapor samples be obtained. Groundwater monitoring requirement pending future soil gas analyses is unwarranted at this time. At any rate, the Department will consider any contamination outside the HWSA as a Solid Waste Management Unit (SWMU), an area of concern, which may be addressed through a corrective action process, if there is evidence of contamination.

- Comment #4: Additional site assessment including groundwater monitoring well(s) installation and/or soil remediation may be necessary pending results of the soil matrix sampling and soil gas survey.

  DTSC Response: See Response to Comments #2 and #3.

II. WATER

- Comment: As indicated above, a groundwater investigation may be necessary based on the results of the soil investigation. The investigation may involve the installation of a number of groundwater

monitoring wells to delineate the extent of the contamination and/or determine the local groundwater flow direction.

DTSC Response: See Response to Comments #2 and #3.

III. RISK OF UPSET

o Comment: Every precaution must be taken to minimize the risk of impact to human, plant and animal life in the surrounding area in the event that an accident occurs during the execution of the project.

DTSC Response: The Department has not discounted any precaution to protect human health and the environment. The Department reviews and approves the Health and Safety Plan prior to closure. During closure, workers' compliance to the project's Health and Safety Plan is mandatory. Furthermore, the Department's review and approval of the Health and Safety component of the Closure includes closure oversight during closure activities.

IV. TRANSPORTATION/CIRCULATION

o Comment: Consideration must be given to the likely event that soil excavation may be necessary and that the number of transportation loads for both hazardous and non-hazardous wastes generated during the proposed project may create an increase in traffic hazards to motor vehicles, bicyclists, or pedestrians in the area.

DTSC Response: Based on the current information gathered during our Geological Staff visit on September 29, 1994, it is unlikely that unintentional discharges have occurred at the HWSA. Excavation of contaminated soil is not expected in the proposed project. Nevertheless, the Department will ensure adequate oversight to ensure a safe closure.

V. HUMAN HEALTH

o Comment: Unintentional waste discharges may have occurred in the HWSA during the active life of the facility. If the soil beneath the HWSA is impacted by waste discharges, every precaution should be taken prior to, during, and subsequent to the project to ensure that no human, plant and animal life is exposed to any potential hazard as a result of the execution of the project.

DTSC Response: The Department agrees with your comment. The Department has reviewed the draft Closure Plan to ensure effective and safe measures are taken to close the regulated unit at the HTI facility. In

an effort to perform a thorough and comprehensive review, the Department required HTI, prior to the Closure Plan approval, to perform soil gas investigation on both the HWSA and the interior of the former manufacturing building.

The Department's review and approval of the Health and Safety component of the Closure includes closure oversight.

At this time, the Department is finalizing the Closure Plan of the HTI regulated unit. Your comments and the Department's corresponding response will be part of this project's administrative records.

Thank you for your concerns on this project.

Sincerely,

Yolanda M. Garza
Unit Chief
Facilities Management Branch

cc: David Koo
Environmental Specialist
California Regional Water
Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey park, CA 91754-2156

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

November 18, 1994

Mr. Jeffrey W. Collier
Planning Director
City of West Covina
Post Office Box 1440
West Covina, CA 91793

RE: RESPONSE TO COMMENTS - CITY OF WEST COVINA REVIEW OF THE DRAFT CLOSURE PLAN FOR THE HUGHES TRAINING, INC., 1200 EAST SAN BERNARDINO ROAD, CAD008351827

Dear Mr. Collier:

Thank you for your comments regarding the Hughes Training, Inc. draft Closure Plan, dated September 2, 1994. In response to your comments, the Department has made the following revisions to the Closure Plan:

1. The description of the Hazardous Waste Storage Area (HWSA) will be modified in the draft Closure Plan package to reflect a total area size of 1,386 square feet.

2. The Los Angeles Department of Public Works has reported that the closest well to the facility, Well #3051, as of March 25, 1994, reflected a groundwater depth reading of 184.7 feet and a surface elevation of 401.5 feet. The draft Closure Plan package will be modified to read the above measurements.

3. The draft Initial Study will be modified to include a diversified current and historical land use (industrial, residential, agricultural, etc.)

4. The total project life for dismantling and transport of materials from the site during closure which is one week, is indicated in Figure 15-1 of the draft Closure Plan.

5. The proposed project is defined as the closure of the only regulated unit at the facility, which is the HWSA. However, since the project is considered a final closure of the property, the Department concerns encompases the entire facility and thus has required that HTI develop a Sampling Analysis Plan of the former manufacturing area at the main building to ensure that hazardous waste releases, if any, are defined and remediated. (California Code of Regulations, Section 66260.10: Definition of Facility - "all contiguous land and structures, other appurtenences, and improvements on the land used for the treatment, transfer, storage, resource recovery, disposal or recycling of hazardous waste . . . for the purpose of implementing corrective action . . ."

If soil, soil/gas analyses indicate that hazardous waste(s) was/were released at the unregulated area, the Department will require HTI to remediate the contamination through a corrective action process.

6. The conclusion drawn that the site is not located at a thickly populated area despite the residences located around HTI, was aimed to compare the general area to more populous locations like public markets, airports, recreational places comparable to Disneyland, Universal Studios, Knottsberry Farm, etc.).

7. The Department proposes that a Negative Declaration be issued to satisfy CEQA requirement on the proposed project. A mitigated Negative Declaration, as proposed by the City of West Covina, is inappropriate since no additional administrative/technical requirement is necessary on the draft Closure Plan. The draft Closure Plan as revised is deemed sufficiently protective of human health and the environment. If a corrective action would be necessary on the unregulated area, it would be addressed separately, with another environmental impact analysis on its own merits.

Thank you for extending your concerns to the Department regarding the proposed project.

Sincerely,

Yolanda M. Garza
Unit Chief
Facilities Management Branch

cc: Brad Dunlap
City Planner
City of West Covina
Post Office Box 1440
West Covina, CA 91793

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

COPY

November 23, 1994

CERTIFIED MAIL **Z 066 445 057**
Return Receipt Requested

Mr. Joseph W. Teel
Principal Engineer
Safety, Health and Environmental Affairs
Quality Assurance
Hughes Training Incorporated/RC 7000
Loc. ARL, Bldg. A-30, MS 110
2200 Arlington Downs Road
P.O. Box 6171
Arlington, TX 76005-6171

Dear Mr. Teel:

CLOSURE CERTIFICATION ACKNOWLEDGEMENT - HAZARDOUS WASTE CONTAINER STORAGE AREA, HUGHES TRAINING INCORPORATED, WEST COVINA, CALIFORNIA, EPA I.D. NUMBER CAD 008 351 827

The Department of Toxic Substances Control (Department) has received the owner's and engineer's certifications dated November 22, 1994 and November 23, 1994, respectively. These letters state that the Hughes Training, Incorporated (Hughes) hazardous waste container storage area has been closed in accordance with the amended Closure Plan. On November 18, 1994, the Department approved the amended Closure Plan and filed a Notice of Determination under CEQA on November 22, 1994. This letter is to inform you that the Department has approved the Hughes Closure Report as amended on November 18, 1994. The Department has determined the Closure Report to meet the requirements of the amended Closure Plan and hereby acknowledges the closure certification submitted by Hughes.

This acknowledgement is based on the assumption that the information submitted in the certifications as well as any information used as a basis for these certifications are accurate. Any inaccuracies found in this information may be grounds for nullification of these closure certifications and potential enforcement action. The Owner/Operator must inform the Department of any deviations from or changes in the information provided which would affect the closure certifications for the above-referenced container storage area.

If you have any questions, please contact Joseph Desai at (818) 551-2910.

Sincerely,

for José Kou, Chief
Facilities Management Branch

cc: Department of Toxic Substances Control
Office of Legal Counsel
400 P Street, 4th Floor
Sacramento, California 95814
Attention: Steve Koyasako

L.A. Regional Water Quality Control Board
101 Centre Plaza Drive
Monterey Park, California 91754-2156
Attention: Hank H. Yacoub

Department of Toxic Substances Control
Hazardous Waste Management Program
400 P Street, 4th Floor
Sacramento, California 95814

Department of Toxic Substances Control
Fees Unit
400 P Street, 4th Floor
Attention: Jo Nelson

U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105-3901
Attention: Greg Lovato

Government Services Librarian
West Covina Regional Library
1601 West Covina Parkway
West Covina, California 91790
Attention: David Wysocki

Hughes Aircraft Incorporated
Waste and Water Programs
Corporate SHEA
Bldg. C01, MS A159
P.O. Box 80028
Los Angeles, California 90080-0028
Attention: Gregory S. Taylor, Project Manager

FILE

STATE OF CALIFORNIA — CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
1011 N. GRANDVIEW AVENUE
GLENDALE, CA 91201
(818) 551-2800

June 9, 1994

CERTIFIED MAIL

Joe W. Teel
Principal Engineer
Safety, Health & Environmental Affairs
Quality Assurance, SHEA/QA
Hughes Training Incorporated/RC 7000
Loc. ARL, Bldg. A-30, MS 110
2200 Arlington Downs Road
P.O. Box 6171
Arlington, TX 76005-6171

Dear Mr. Teel:

HUGHES TRAINING, INC. (HTI), 1200 E. SAN BERNARDINO ROAD, WEST COVINA, CA 91791-1098 - TECHNICAL COMPLETENESS DETERMINATION FOR THE HAZARDOUS WASTE STORAGE AREA MODIFIED DRAFT CLOSURE PLAN (EPA I.D. NUMBER CAD008351827)

The California Environmental Protection Agency, Department of Toxic Substances Control (Department), Region 3, has completed the review of your modified draft Closure Plan dated May 1994 for the hazardous waste storage area located at 1200 E. San Bernardino Road, West Covina, California. The modified draft Closure Plan was submitted in response to a Notice of Deficiency issued by the Department on May 23, 1994.

As a result of our Closure Plan review, it has been determined that HTI's modified draft Closure Plan is technically complete. A notice for its proposed approval will be initiated and you will be notified when it is available for public review, and if a public hearing is scheduled.

Although the draft modified Closure Plan is technically complete, HTI has to comply with the following:

- To this date, HTI has not submitted a certification indicating that HTI never treated hazardous waste.

  Facility file review indicated that HTI submitted a variance application which included aboveground elementary neutralization of sulfuric acid. However, during a site visit by our staff on May 12, 1994, you indicated that treatment of sulfuric acid was erroneously included in the variance application and that a certification indicating that HTI never treated hazardous waste will be submitted to the Department.

- o Confirmatory sampling at the site's manufacturing process area.

  During a meeting between HTI and DTSC Region 3 on May 18, 1994, it was agreed upon that HTI will perform confirmatory sampling at the site's manufacturing process area and that HTI will remediate the site if analyses indicate that it is contaminated.

Failure to comply with the above conditons will result in a delay in the Department's acknowledgement of HTI's certification that closure is complete, in addition to possible enforcement action.

Should you have any questions, please contact Maria Fabella or Joseph Desai at (818) 551-2918 or (818) 551-2910, respectively.

Sincerely,

Yolanda M. Garza
Senior Hazardous Materials Specialist
Facilities Management Branch

Certified Mail
P 471 077 090
Return Receipt Requested

cc: Greg S. Taylor
Senior Specialist
Corporate Environmental
Health & Safety
Hughes Aircraft Company
P.O. Box 80028
Los Angeles, CA 90080-0028

Greg Lovato
U.S. EPA, Region IX (H-3-2)
75 Hawthorne Street
San Francisco, CA 94105

Cecilia Rosana
Financial Responsibility Unit
DTSC, Region 3

ATTACHMENT 6 – INTERNET & DTSC/EPA DATABASE RESULTS FOR HTI

U.S. ENVIRONMENTAL PROTECTION AGENCY

Envirofacts Data Warehouse

Envirofacts

MultiSystem Report

Report an Error

HUGHES TRAINING INCORPORATED
1200 EAST SAN BERNARDINO ROAD
WEST COVINA, CA 91790

Map this facility

EPA Facility Information

This query was executed on DEC-17-2007

Toxic Releases for Reporting Year 1991

TRI FACILITY ID: 91790HNYWL1200E

SIC Codes for 1991

SIC CODE	SIC CODE DESCRIPTION
3699	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED

Chemicals Transferred to other Sites

CHEMICAL NAME	TRI CHEM ID	DOCUMENT	RELEASE AMOUNTS LBS/YR	RELEASE BASIS CODE	TYPE OF WASTE MANAGEMENT	TRANSFER SITE NAME	TRANSI SITE C
1,1,1-TRICHLOROETHANE	000071556	1391055721625	1500	MASS BALANCE CALCULATIONS	REUSE AS FUEL/FUEL BLENDING	OIL & SOLVENT PROCESSING CO., CHEMICAL WASTE MANAGEMENT	AZUSA
METHYL ETHYL KETONE	000078933	1391055721649	20	MASS BALANCE CALCULATIONS	REUSE AS FUEL/FUEL BLENDING	OIL & SOLVENT PROCESSING CO.	AZUSA
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	007664939	1391055721637	100	MASS BALANCE CALCULATIONS	OTHER TREATMENT	CHEMICAL WASTE MANAGEMENT	KETTLE CITY

Chemicals Released to Air

CHEMICAL NAME	TRI CHEM ID	DOCUMENT	RELEASE AMOUNTS LBS/YR	RELEASE BASIS CODE	FUGITIVE OR STACK INDICATOR
1,1,1-TRICHLOROETHANE	000071556	1391055721625	300	MASS BALANCE CALCULATIONS	FUGITIVE OR NON-POINT EMISSIONS
1,1,1-TRICHLOROETHANE	000071556	1391055721625	3000	MASS BALANCE CALCULATIONS	STACK OR POINT EMISSIONS
FREON 113	000076131	1391055721652	300	MASS BALANCE CALCULATIONS	STACK OR POINT EMISSIONS
METHYL ETHYL KETONE	000078933	1391055721649	150	MASS BALANCE CALCULATIONS	FUGITIVE OR NON-POINT EMISSIONS
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	007664939	1391055721637	100	MASS BALANCE CALCULATIONS	STACK OR POINT EMISSIONS

Chemicals Released via Underground Injection

There was no data of this type reported for this facility.

Chemicals Released to Land

There was no data of this type reported for this facility.

Chemicals Released to Surface Water

There was no data of this type reported for this facility.

Additional Information can be obtained from the Toxics Release Inventory System TRIS Query.

Additional links for TRI:

This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

- National Library of Medicine (NLM) TOXMAP

RCRAInfo

HANDLER ID: CAD008351827

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing

HANDLER / FACILITY CLASSIFICATION

HANDLER TYPE	LAND DISPOSAL	INCINERATOR	BOILER AND OR INDUSTRIAL FURNACE	STORAGE	TREATMENT

Permit Progress				Y	Y

HANDLER TYPE
TSDFs Potentially Subject to Corrective Action Under Discretionary Authority
Subject to CA

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN5

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	6250	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN7

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	82	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN2

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	200	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN7

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	82	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT2

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Permitted - Inactive/closing, But Not Yet Rcra Closed	U - GALLONS PER DAY	D - DESIGN	1	12	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT3

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Permitted - Inactive/closing, But Not Yet Rcra Closed	U - GALLONS PER DAY	D - DESIGN	1	1350	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN1

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	200	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN3

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	175	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT1

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Interim Status - Clean Closed	U - GALLONS PER DAY	D - DESIGN	1	10	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN3

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	175	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN4

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	8650	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT3

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Interim Status - Clean Closed	U - GALLONS PER DAY	D - DESIGN	1	1350	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN6

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	22	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN5

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
	Interim Status -					

S01 - CONTAINER	Clean Closed	G - GALLONS	D - DESIGN	1	6250	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN6

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Interim Status - Clean Closed	G - GALLONS	D - DESIGN	1	22	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT1

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Permitted - Inactive/closing, But Not Yet Rcra Closed	U - GALLONS PER DAY	D - DESIGN	1	10	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP TANKTRT2

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T01 - TANK TREATMENT	Interim Status - Clean Closed	U - GALLONS PER DAY	D - DESIGN	1	12	23-NOV-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN1

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	200	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN2

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	200	14-APR-94

LIST OF PROCESS UNIT INFORMATION FOR GROUP CONTAIN4

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
S01 - CONTAINER	Permitted - Inactive/closing, But Not Yet Rcra Closed	G - GALLONS	D - DESIGN	1	8650	14-APR-94

Additional Information can be obtained from Resource Conservation and Recovery Information RCRAInfo Query.

EPA Home | Privacy and Security Notice | Contact Us

Last updated on Monday, December 17th, 2007
http://oaspub.epa.gov/enviro/multisys2.get_list

U.S. ENVIRONMENTAL PROTECTION AGENCY

Facility Registry System (FRS)

Facility Detail Report

Report an Error

FRS

Facility Name:	HUGHES TRAINING INCORPORATED
Location Address:	1200 EAST SAN BERNARDINO ROAD
Supplemental Address:	
City Name:	WEST COVINA
State	CA
County Name:	LOS ANGELES
ZIP/Postal Code:	91790
EPA Region:	09
Congressional District Number:	28
Legislative District Number:	3
HUC Code:	18070106
Federal Facility:	
US Mexico Border Indicator:	NO
Tribal Land :	NO
Latitude:	34.086667
Longitude:	-117.918333
Method:	UNKNOWN
Reference Point Description:	UNKNOWN
Duns Number:	
Registry ID:	110002143788

Map this facility

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RCRAINFO	CAD008351827	UNSPECIFIED UNIVERSE (INACTIVE)	RCRAINFO	07/31/1991	
TRIS	91790HNYWL1200E	TRI REPORTER	TRI REPORTING FORM	09/10/1992	
NEI	NEI20793	CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	NEI		

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
CONTACT / OPERATOR	1200 E SAN BERNARDINO RD	WEST COVINA	CA	917901098	RCRAINFO
FACILITY MAILING ADDRESS	1200 E. SAN BERNARDINO RD.	WEST COVINA	CA	91790	TRIS
CONTACT / GENERAL	1200 E SAN BERNARDINO RD	WEST COVINA	CA	917911098	RCRAINFO

NAICS Codes

Data Source	NAICS Code	Description	Primary
NEI	3724		
RCRAINFO	335999	ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING.	

SIC Codes

Data Source	SIC Code	Description	Primary
NEI	3724	AIRCRAFT ENGINES AND ENGINE PARTS	
TRIS	3699	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED	

Contacts

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
PUBLIC CONTACT	ERNEST BIACSI	8189159530	TRIS	

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
CONTACT / OPERATOR	HUGHES TRAINING INC		RCRAINFO	View

Alternative Names

No Alternative Names returned.

Query executed on: DEC-17-2007

Additional information for CERCLIS or TRI sites:

This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the

Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

- National Library of Medicine (NLM) EXIT EPA TOXMAP

U.S. ENVIRONMENTAL PROTECTION AGENCY

Toxics Release Inventory (TRI)

TRI

Envirofacts Report

Report an Error

Query executed on DEC-17-2007
Results are based on data extracted on NOV-15-2007

Click on "View Facility Information" to view EPA Facility information for the facility.

Facility Name:	HUGHES TRAINING INC.	Mailing Name:	HUGHES TRAINING INC.		
Address:	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	Mailing Address:	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790		
County:	LOS ANGELES	Region:	9		
Facility Information:	View Facility Information	TRI ID:	91790HNYWL1200E	DUNS Number:	008351827
		FRS ID	110002143788		
TRI Preferred Latitude:	34.086667	TRI Preferred Longitude:	117.918333		
Public Contact:	ERNEST BIACSI	Phone:	8189159530		
Parent Company:	GMC	Parent DUNS:	005356613		

SIC Codes for 1991

SIC CODE	SIC DESCRIPTION
3699	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED

The above information comes from 1991, which is the latest reporting year on file for this facility. The earliest reporting year on file for this facility is 1987.

Map this facility

Map this facility using one of Envirofact's mapping utilities.

Total Aggregate Releases of TRI Chemicals to the Environment:

For all releases estimated as a range, the mid-point of the range was used in these calculations. This table summarizes the releases reported by the facility. ***NR*** *- signifies nothing reported by this facility for the corresponding medium.*

Total Aggregate Releases of TRI Chemicals excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

Media	1991	1990	1989	1988	1987

Air Emissions	3850	8200	9517	9778	13120
Surface Water Discharges	NR	NR	NR	NR	NR
Releases to Land	NR	NR	NR	NR	NR
Underground Injection	NR	NR	NR	NR	NR
Total On-Site Releases	3850	8200	9517	9778	13120
Transfer Off-Site to Disposal	NR	4000	2929	3020	3110
Total Releases	3850	12200	12446	12798	16230

Graphic Summary of this Table

Total Aggregate Releases of Dioxin and Dioxin-like Compounds (Measured in Grams)

Media	1991	1990	1989	1988	1987
Air Emissions	NR	NR	NR	NR	NR
Surface Water Discharges	NR	NR	NR	NR	NR
Releases to Land	NR	NR	NR	NR	NR
Underground Injection	NR	NR	NR	NR	NR
Total On-Site Releases	NR	NR	NR	NR	NR
Transfer Off-Site to Disposal	NR	NR	NR	NR	NR
Total Releases	NR	NR	NR	NR	NR

Graphic Summary of this Table

TRI Chemicals Reported on Form A:

Please note that there were no chemicals reported on Form A for this facility

NOTE:
All chemicals reported below have release or transfer amounts greater than zero. To see a list of all chemicals reported by this facility click here.

Names and Amounts of Chemicals Released to the Environment by Year.

For all releases estimated as a range, the mid-point of the range was used in these calculations. ***NR*** *- signifies nothing reported for this facility by the corresponding medium. Rows with all "0" or "NR" values were not listed.*

Chemical Name	Media	Unit Of Measure	1991	1990	1989	1988	1987
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	AIR FUG	Pounds	300	2700	6195	6384	8920
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	AIR STACK	Pounds	3000	5500	3322	3394	4200
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	DISP NON METALS	Pounds	NR	4000	2929	3020	3110
FREON 113 (TRI Chemical ID: 000076131)	AIR STACK	Pounds	300	NR	NR	NR	NR
METHYL ETHYL KETONE (TRI Chemical ID: 000078933)	AIR FUG	Pounds	150	NR	NR	NR	NR

SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY) (TRI Chemical ID: 007664939)	AIR STACK	Pounds	100	NR	NR	NR	NR

Discharge of Chemicals into Streams or Bodies of Water:

Please note that either there were no releases of chemicals into streams or bodies of water reported by this facility or the facility did not file a TRI form R for the years 1987 to 1991. Rows with Release Amount equal to "0" were not listed.

Transfer of Chemicals to Off-Site Locations other than POTWs:

Please note that transfer amounts are not included in release totals shown above. For all releases estimated as a range, the mid-point of the range was used in these calculations. Rows with Total Transfer Amount equal to "0" were not listed.

Chemical Name	Year	Unit Of Measure	Total Transfer Amount	Transfer Site Name and Address	Type Of Waste Management
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	1991	Pounds	1500	OIL & SOLVENT PROCESSING CO., CHEMICAL WASTE MANAGEMENT 1704 W. FIRST ST.. AZUSA, CA 91702	Solvents/Organics Recovery
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	1990	Pounds	4000	OIL & SOLVENT PROCESS CO. 1704 W. FIRST ST. AZUSA, CA 91702	Other Off-Site Management
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	1989	Pounds	2929	OIL & SOLVENT PROCESS CO. 1704 W. FIRST ST. AZUSA, CA 91702	Other Off-Site Management
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	1988	Pounds	3020	OIL & SOLVENT PROCESS CO 1704 W FIRST ST AZUSA, CA 91702	Other Off-Site Management
1,1,1-TRICHLOROETHANE (TRI Chemical ID: 000071556)	1987	Pounds	3110	OIL AND SOLVENT PROCESS CO. 1704 W. FIRST AZUSA, CA 91702	Other Off-Site Management
METHYL ETHYL KETONE (TRI Chemical ID: 000078933)	1991	Pounds	20	OIL & SOLVENT PROCESSING CO. 1704 W. FIRST ST. AZUSA, CA 91702	Solvents/Organics Recovery
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY) (TRI Chemical ID: 007664939)	1991	Pounds	100	CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE DR. KETTLEMAN CITY, CA 93239	Other Waste Treatment

Summary of Waste Management Activites

Please note that chemical amounts shown here are not included in Total Aggregate Releases shown above.

Summary of Waste Management Activites excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

Year	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treatment	Off-Site Treatment	Total Amount
1990	0	0	0	100	40	0	140
1991	0	0	0	1600	16	0	1616
1992 (Projected)	0	0	0	50	11	0	61
1993 (Projected)	0	0	0	0	0	0	0

Summary of Waste Management Activites for Dioxin and Dioxin-like Compounds (Measured in Grams)

This facility did not report any waste management activites for Dioxin and Dioxin-like Compounds.

Chemicals Under Waste Management:

Please note that chemical amounts shown here are not included in the Total Aggregate Releases shown above. Transfers to Publicly Owned Treatment Works are listed on a seperate table.

Chemical Name	Year	Unit Of Measure	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treated	Off-Site Treated	Total Amount
1,1,1-TRICHLOROETHANE	1990	Pounds	0	0	0	0	0	0	0
	1991	Pounds	0	0	0	1500	0	0	1500
	1992 (Projected)	Pounds	0	0	0	0	0	0	0
	1993 (Projected)	Pounds	0	0	0	0	0	0	0
METHYL ETHYL KETONE	1990	Pounds	0	0	0	100	0	0	100
	1991	Pounds	0	0	0	100	0	0	100
	1992 (Projected)	Pounds	0	0	0	50	0	0	50
	1993 (Projected)	Pounds	0	0	0	0	0	0	0
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	1990	Pounds	0	0	0	0	40	0	40
	1991	Pounds	0	0	0	0	16	0	16
	1992 (Projected)	Pounds	0	0	0	0	11	0	11
	1993 (Projected)	Pounds	0	0	0	0	0	0	0

Transfer of Chemicals to Publicly Owned Treatment Works (POTW):

This facility did not transfer any chemicals to a Publicly Owned Treatment Works (POTW).

Non Production Releases:

This facility did not report any Non-Production releases.

Additional links for TRI:

This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

- National Library of Medicine (NLM) TOXMAP

U.S. ENVIRONMENTAL PROTECTION AGENCY

Resource Conservation and Recovery Act (RCRAInfo)

Query Results

RCRAInfo

Report an Error

Handler ID: Equal To: CAD008351827

Results are based on data extracted on JUN-08-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

Go To Bottom Of The Page

HANDLER NAME:	HUGHES TRAINING INCORPORATED	HANDLER ID:	CAD008351827
STREET:	1200 EAST SAN BERNARDINO ROAD	FACILITY INFORMATION:	View Facility Information
CITY:	WEST COVINA	CORPORATE LINK:	No
STATE:	CA	COUNTY:	LOS ANGELES
ZIP CODE:	91790	MAPPING INFO:	MAP
EPA REGION:	9		

Contact Information

There is no Core, Notification or BRS contact information available for this handler

HANDLER / FACILITY CLASSIFICATION

HANDLER TYPE	LAND DISPOSAL	INCINERATOR	BOILER AND OR INDUSTRIAL FURNACE	STORAGE	TREATMENT
Permit Progress				Y	Y

HANDLER TYPE
TSDFs Potentially Subject to Corrective Action Under Discretionary Authority
Subject to CA

Go To Top Of The Page

Total Number of Facilities Displayed: 1

Last updated on Monday, December 17th, 2007
http://oaspub.epa.gov/enviro/rcris_web.report



Local Business Search

AMERICA at a glance

West Covina at a Glance

Search **2,679** West Covina Businesses

West Covina Churches

> Amusements
> Apartments
> Appliances
> Attorneys
> Attractions
> Autos
> Banks
> Builders
> Business
> Children
> Clothing
> Computers
> Contractors
> Dentists
> Entertainment
> Financial
> Florists
> Furniture
> Golf
> Government
> Health
> Health Clubs
> Hospitals
> Hotels
> Insurance
> Investments
> Jewelers
> Jobs
> Legal
> Leisure
> Loans
> Medical
> Men
> Mortgage
> Moving
> Nightlife
> Office

Site Map >> West Covina, California Churches

West Covina Churches

San Bernardino Apts
Find Your San Bernardino Apartment. Get Virtual Tours & Expert Advice.
www.Move.com/SanBernardino

Tutor Time West Covina
Pre-School learning centers. Prepares kids for kindergarten.
www.TutorTime.com

LA Social Security
Call Us for Social Security Law. We Protect Social Security Benefits.
www.KuntzSsLaw.com

San bernardino Listings
Gain Free Access to Home Listings In San bernardino, CA - Easy!
www.eagent.com/San bernardino

Ads by Google

Listings for West Covina Churches:

Bethany Baptist Church
763 N Sunset Ave, West Covina, CA 91790-1298
626-962-8501

Calvary Chapel Chinese
520 S Lark Ellen Ave, West Covina, CA 91791-2552
626-917-0688

Calvary Chapel of West Covina
2516 E Workman Ave, West Covina, CA 91791-1534
626-332-0735

Calvary Christian Fellowship
1422 S Azusa Ave, West Covina, CA 91791-4121
626-919-2400

Cambodian Alliance Church
1911 Yvonne St, West Covina, CA 91792-2355
626-810-1747

Charisma Christian Ctr
1437 W Badillo St, West Covina, CA 91790-1207
626-814-1668

Christ Community Church
1432 W Puente Ave, West Covina, CA 91790-1223

List your Business on this site
For FREE!
Get started Click Here!

Ads by Google

Cal School-Culinary Arts
Check out programs and receive info Contact CSCA today!
www.Education-Online-Search.com

Southern CA Event Venues
Meeting and special event venues in Southern California
www.AgendaOnline.com

Houses For Sale
Homes For Sale. Houses For Sale By Owner.
www.Owners.com

California Entertainment
Directory Of Entertainment In Your Area! Search By Category/Name
www.AreaGuides.net

Rehab LA-Area Houses
Buy, fix, and re-sell these fixer- uppers. Make $20k to $34K / house.
www.LosAngelesInvestorNetwork.c

> Organizations
> Pets
> Photographers
> Physicians
> Professionals
> Real Estate
> Restaurants
> Retail
> Schools
> Salons
> Services
> Shoes
> Shopping
> Travel
> Vacations
> Veterinarians
> Web Design
> Women

626-960-4444

Christ Lutheran Church
311 S Citrus St, West Covina, CA 91791-2191
626-331-5309

Church of Jesus Christ of Lds
1307 S Orange Ave, West Covina, CA 91790-3321
626-337-4524

Church of the Nazarene
1437 W Badillo St, West Covina, CA 91790-1207
626-962-2740

Community Presbyterian Church
540 E Vine Ave, West Covina, CA 91790-5197
626-918-1221

Deeper Life Church
West Covina, CA 91790
626-338-0498

Faith Community Church
1211 E Badillo St, West Covina, CA 91790-1369
626-858-8400

Faith Community Church
1200 E San Bernardino Rd, West Covina, CA 91791
626-858-8400

First Ch of Christ Scientist
815 S Lark Ellen Ave, West Covina, CA 91791-3116
626-919-1250

Formosan Presbyterian Church
925 Las Rosas Dr, West Covina, CA 91791-4200
626-939-4034

Good Steward Church
2701 S Woodgate Dr, West Covina, CA 91792-2036
626-913-6611

Iglesia Bethesda
1720 S Willow Ave, West Covina, CA 91790-5623
626-960-7705

Immanuel First Lutheran Church
512 S Valinda Ave, West Covina, CA 91790-3007
626-919-1530

Islamic Learning & Practicing
1912 W Merced Ave, West Covina, CA 91790-2528
626-813-2690

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z **Next Page**

Houses For Sale
Homes For Sale. Houses For Sale By Owner.
www.Owners.com

Rehab LA-Area Houses
Buy, fix, and re-sell these fixer- uppers. Make $20k to $34K / house.
www.LosAngelesInvestorNetwork.com

Pre-School At Tutor Time
Learning centers in West Covina Safe, Secure, Fun. Schedule a Visit
www.TutorTime.com

San bernardino Listings
Gain Free Access to Home Listings In San bernardino, CA - Easy!
www.eagent.com/San bernardino

Ads by Google

Search West Covina:

Search

Copyright © 2007 West Covina at a Glance

ATTACHMENT 7 – RECORD OF COMMUNICATIONS TO LOS ANGELES COUNTY ASSESSOR AND FAITH COMMUNITY CHURCH

From: "Ownership Services" <own@assessor.lacounty.gov>
To: "Ruth Cayabyab" <RCayabya@dtsc.ca.gov>
Date: 1/18/2008 2:02 PM
Subject: RE: Public Inquiry Form

Ms Cayabyab,

Please access the following link and confirm if parcel 18 is the subject property. The parcel number of a property corresponds to the number inside the circle. The rear boundary of the property with AIN: 8434-015-018 extends all the way to San Bernardino Rd. That will probably relate the current property address to the old address. However, the 1200 San Bernardino Rd is about two blocks away from parcel 18.

http://maps.assessor.lacounty.gov/mapping/viewAssessorMapPDF.asp?val=8434-015

Going back to your inquiry on the ownership of parcel 18, prior to 1984, the property was owned by Bank of America, by St Francis Hospital in 1984, by Honeywell Inc in 1986, by Rediffusion Simulation Inc in 1989, and by Faith Community Church of West Covina starting in 1994.

Ownership Services e-mail desk

-----Original Message-----
From: Ruth Cayabyab [mailto:RCayabya@dtsc.ca.gov]
Sent: Friday, January 18, 2008 12:05 PM
To: Ownership Services
Subject: RE: Public Inquiry Form

Thank you,
I apologize, that was a typo. I was referring to 1211 E Badillo St for that AIN.

Was there any information regarding the address at 1200 E San Bernardino St? I believe this was the address for this parcel approximately 10 years ago.

>>> "Ownership Services" <own@assessor.lacounty.gov> 1/18/2008 10:00 AM >>> >>>

Ms Cayabyab,

The given AIN refers to the property at 1211 E Badillo St, West Covina CA 91790-1369.
Current owner of record is the FAITH COMMUNITY CHURCH OF WEST COVINA.
Mailing address: same as property address

We are puzzled by your inquiry because the situs that you provided says E San Bernardino Rd. Please confirm which property you are referring to.

Thank you.

Ownership Services e-mail desk

-----Original Message-----
From: RCayabya@dtsc.ca.gov [mailto:RCayabya@dtsc.ca.gov]
Sent: Thursday, January 17, 2008 4:25 PM
To: L.A. County - Office of The Assessor
Subject: Public Inquiry Form

Name: Cayabyab, Ruth
Business Name: State of California Department of Toxic Substances Control

Address: 8800 Cal Center Drive

Sacramento, CA 95826

Email: RCayabya@dtsc.ca.gov

Phone: 916-255-3601

Fax: 916-255-3596

Situs: 1200 (or 1211) East San Bernardino Road

West Covina, CA 91790

AIN: 8434-015-018

Company Name:

Routing Index:

Comments: I need to know the current property owner for this address for a RCRA Facility Assessment. I've looked at the parcel maps on the Property Assessment Information System (GIS Maps), and it seems that the former Hazardous Waste facility at 1200 E San Bernardino Rd is now 1211 E San Bernardino Rd.

Please provide any historical and current information you have at this address. Thank you.

From: Ruth Cayabyab
To: info@go2faith.com
Date: 12/3/2007 2:57 PM
Subject: Request for Information from State of California EPA

Hello,

I work with the State of California Environmental Protection Agency, Department of Toxic Substances Control. I'm trying to obtain any information regarding (past and present) owners for the property located at 1211 East Badillo Street. If you have any information regarding any changes in ownership from 1994 to the present, please send that data to me. This information would be used to support the determination that no further action is required for this site.

According to the Los Angeles County Office of The Assessor, the Faith Community Church is located on the same parcel as the former hazardous waste storage facility [Honeywell, Incorporated (1963-1989) and Hughes Training, Incorporated (1989-1994)]. The former site address was 1200 East San Bernardino Road. The facility was clean closed in 1994 and sold to a new owner, however, our records do not have information on the owner who purchased the property in 1994. We also do not have any information regarding the current owner, if it is different than the owner from 1994.

The Lot Numbers in question are: Lots 31 and 32 of the 576.5 acre tract known as W.R. Rowland Tract, in the Rancho La Puente, in the City of West Covina, in the County of Los Angeles, State of California, as per map recorded in Book 42 Page 45 of Miscellaneous Records, in the Office of the County Recorder of Lost Angeles County. The former facility was bordered on the North by San Bernardino Road and Badillo Street to the South. Lark Ellen and Vincent Streets lie to the East and West, respectively.

The associated AIN is 8434-018-018.

Copies of the assessor's maps from 1989 and 2007 are in the attached PDF.

I also welcome any other information (copies of studies/reports) you may have regarding this parcel.

Thank you in advance for your assistance,
Ruth

Ruth Adviento Cayabyab
Project Manager
Department of Toxic Substances Control
N California Permitting and Corrective Action Branch
8800 Cal Center Drive, Sacramento, CA 95826
Voice: (916) 255-3601
Fax: (916) 255-3596
RCayabya@dtsc.ca.gov

From: Ruth Cayabyab
To: info@go2faith.com
Date: 12/3/2007 3:01 PM
Subject: (updated) Request for Information from State of California EPA
Attachments: HTI_Assessor_Map_Past_Present.pdf

Updated

I apologize, I had forgotten the attachment. If you have any questions, please feel free to contact me. Thank you.

- Ruth

>>> Ruth Cayabyab 12/3/2007 2:57 PM >>>
Hello,

I work with the State of California Environmental Protection Agency, Department of Toxic Substances Control. I'm trying to obtain any information regarding (past and present) owners for the property located at 1211 East Badillo Street. If you have any information regarding any changes in ownership from 1994 to the present, please send that data to me. This information would be used to support the determination that no further action is required for this site.

According to the Los Angeles County Office of The Assessor, the Faith Community Church is located on the same parcel as the former hazardous waste storage facility [Honeywell, Incorporated (1963-1989) and Hughes Training, Incorporated (1989-1994)]. The former site address was 1200 East San Bernardino Road. The facility was clean closed in 1994 and sold to a new owner, however, our records do not have information on the owner who purchased the property in 1994. We also do not have any information regarding the current owner, if it is different than the owner from 1994.

The Lot Numbers in question are: Lots 31 and 32 of the 576.5 acre tract known as W.R. Rowland Tract, in the Rancho La Puente, in the City of West Covina, in the County of Los Angeles, State of California, as per map recorded in Book 42 Page 45 of Miscellaneous Records, in the Office of the County Recorder of Lost Angeles County. The former facility was bordered on the North by San Bernardino Road and Badillo Street to the South. Lark Ellen and Vincent Streets lie to the East and West, respectively.

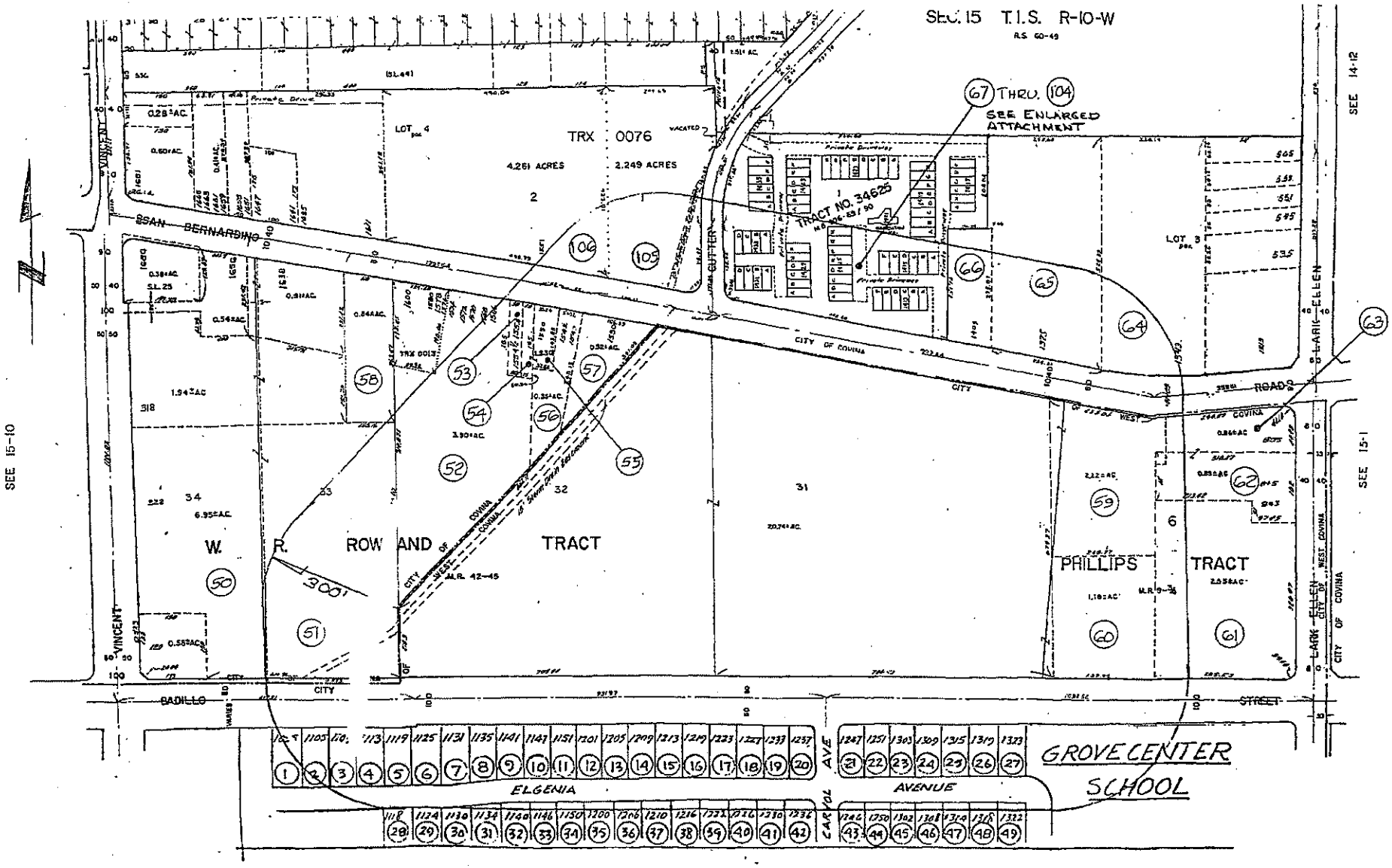
The associated AIN is 8434-018-018.

Copies of the assessor's maps from 1989 and 2007 are in the attached PDF.

I also welcome any other information (copies of studies/reports) you may have regarding this parcel.

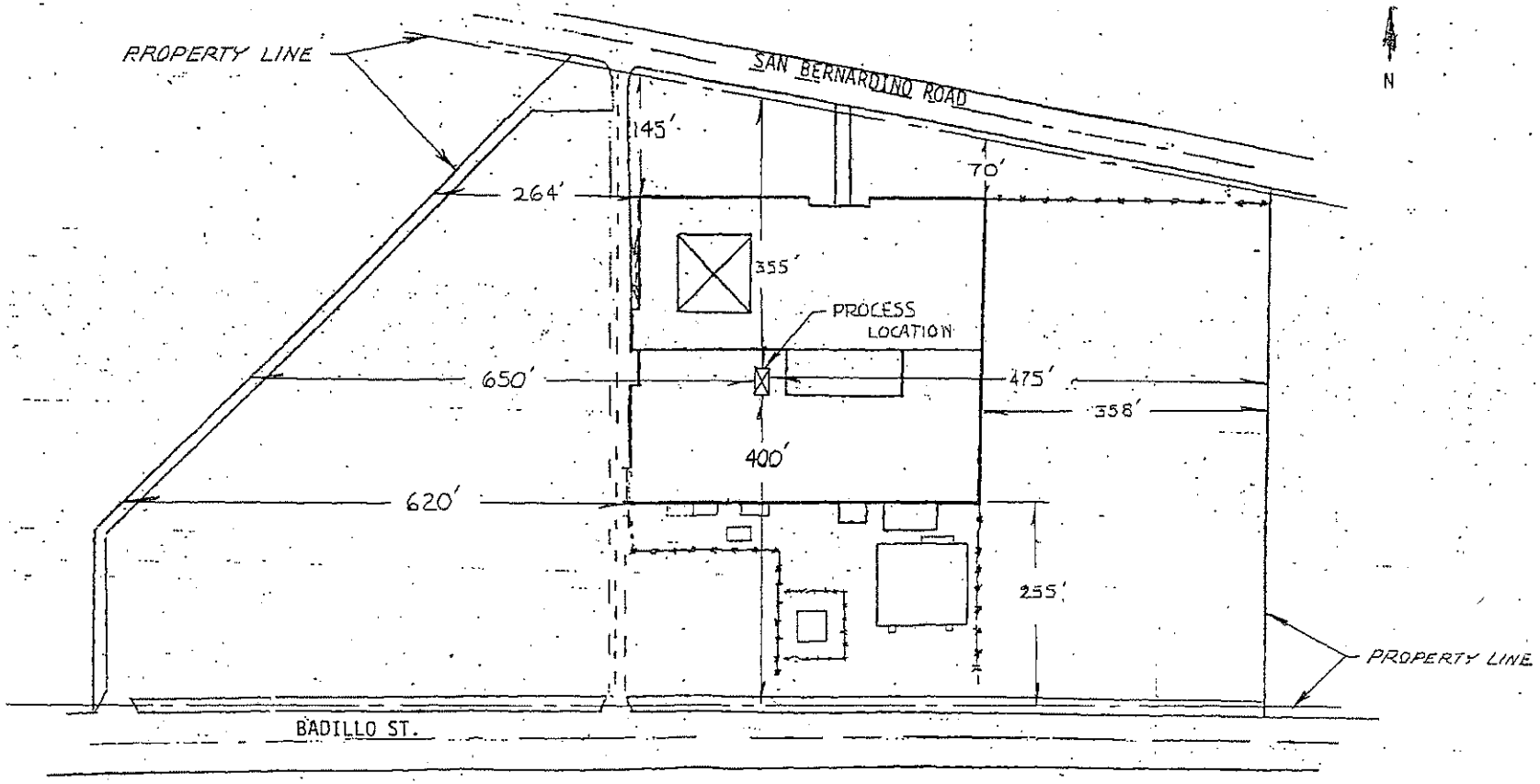
Thank you in advance for your assistance,
Ruth

Ruth Adviento Cayabyab
Project Manager
Department of Toxic Substances Control
N California Permitting and Corrective Action Branch
8800 Cal Center Drive, Sacramento, CA 95826
Voice: (916) 255-3601
Fax: (916) 255-3596
RCayabya@dtsc.ca.gov



300 FOOT RADIUS MAP

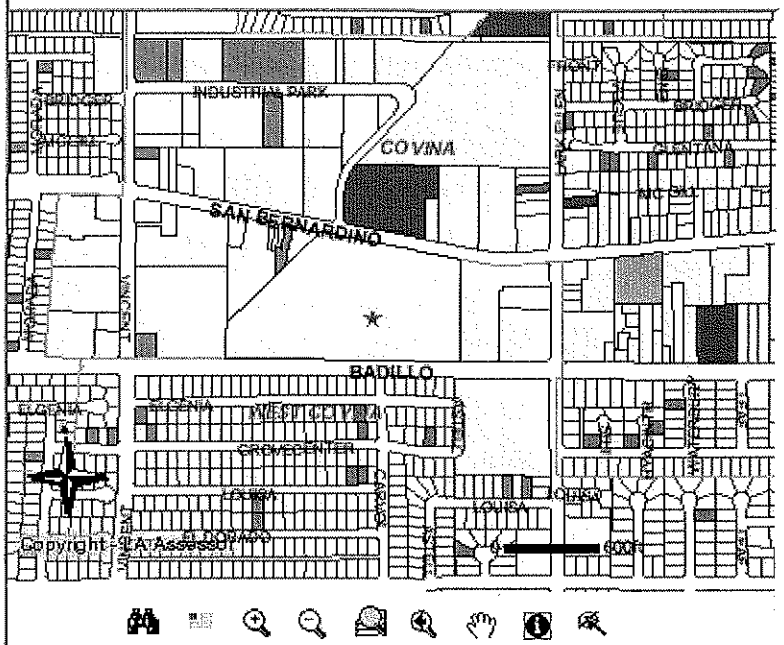
HONEYWELL
1200 E. SAN BERNARDINO RD



1200 E. SAN BERNARDINO ROAD
WEST COVINA, CALIF.

Figure I

Los Angeles County
Office of the Assessor



Records for this property are kept at the East District Office
(How frequently is the information updated on this site?)

Property Information

Assessor's ID No.	8434-015-018
Site Address	1211 E BADILLO ST WEST COVINA CA 91790
Property Type	Other
Region / Cluster	27 / 27625
Tax Rate Area (TRA)	03083

Click Here to View Assessor's Map

Click Here to View Index Map

Recent Sale Information

Latest Sale Date	
Indicated Sale Price	

Search for Recent Sales

2007 Roll Values

Recording Date	05/03/1995
Land	$6,017,884
Improvements	$6,268,631
Personal Property	$2,254,000
Fixtures	$1,791,000
Homeowners' Exemption	$0
Real Estate Exemption	$12,286,515
Personal Property Exemption	$2,254,000
Fixture Exemption	$1,791,000

Click Here for 2007 Annual Taxes

Estimate Supplemental Taxes

Property Boundary Description

LOT EX OF ST COM N 79¢30'30" W 37.08 FT FROM NE COR OF LOT 31 TH N 79¢ 30'30" W 857.57 FT TH S 45¢17' W 864.11 FT ON W LINE OF LOT 32 TO N LINE ... SEE MAPBOOK FOR MISS PORTION ... 576.50 ACRE TR KNOWN AS W R ROWLAND TR

Building Description(s)

	Improvement 1
Square Footage	162,213
Year Built / Effective Year Built	1963 / 1980
Bedrooms / Bathrooms	0 / 0
Units	0

	Improvement 2
Square Footage	700,000
Year Built / Effective Year Built	1963 / 1980
Bedrooms / Bathrooms	0 / 0
Units	0

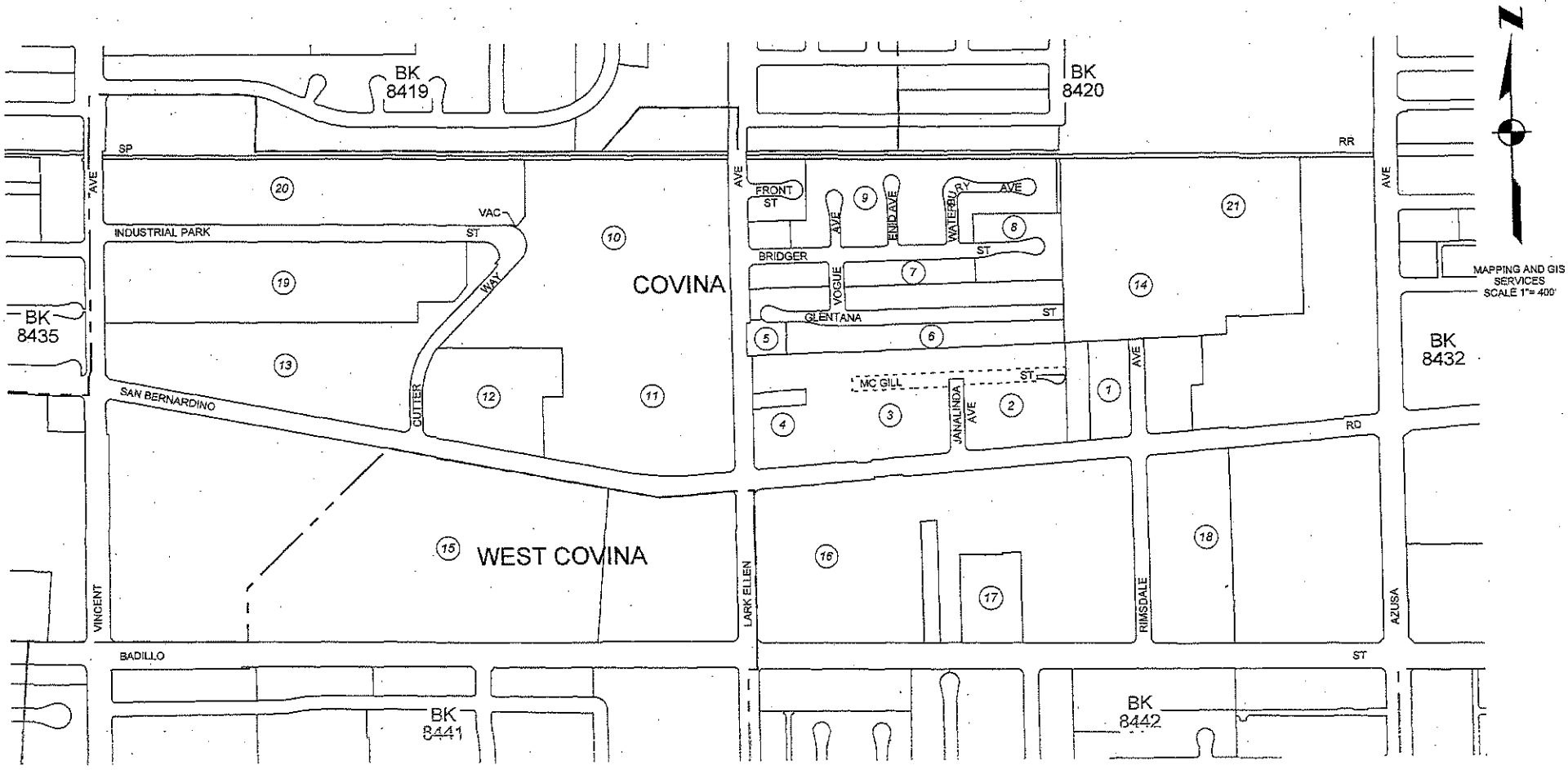
Click Here for Another Search

OFFICE OF THE ASSESSOR
COUNTY OF LOS ANGELES
COPYRIGHT © 2002

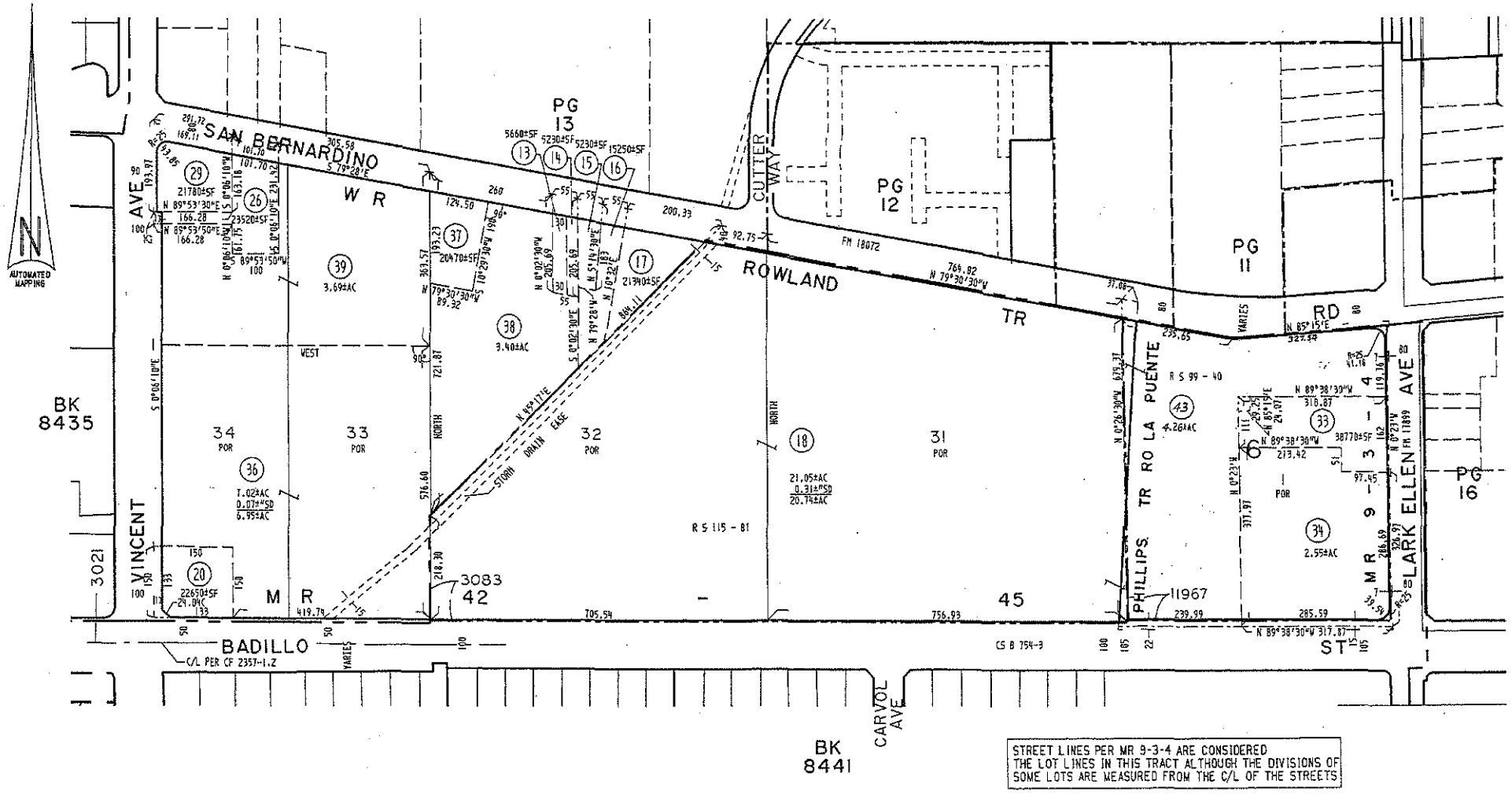
REVISED:
931124
20051229DB

INDEX 8434

2006



1999



BK 8441

STREET LINES PER MR 9-3-4 ARE CONSIDERED THE LOT LINES IN THIS TRACT ALTHOUGH THE DIVISIONS OF SOME LOTS ARE MEASURED FROM THE C/L OF THE STREETS

Department of Toxic Substances Control

Linda S. Adams
Secretary for
Environmental Protection

Maureen F. Gorsen, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Arnold Schwarzenegger
Governor

February 22, 2008

Faith Community Church
1211 East Badillo Street
West Covina, California 91790

Certified Mail # 70031680000430242868

REQUEST FOR COMPLETION OF A RESOURCE CONSERVATION AND RECOVERY ACT FACILITY ASSESSMENT QUESTIONNAIRE, FORMER HAZARDOUS WASTE FACILITY: REDIFFUSION SIMULATION INC. (A/K/A HUGHES TRAINING, INC), ENVIRONMENTAL PROTECTION AGENCY ID CAD008351827, AIN: 8434-015-018, 12 11 EAST BADILLO STREET (FORMERLY 1200 EAST SAN BERNARDINO ROAD), WEST COVINA, CA 91790

Dear Sir or Madam:

The Department of Toxic Substances Control (DTSC) requests completion of the enclosed Resource Conservation and Recovery Act (RCRA) Facility Assessment Questionnaire. The property located at 1211 East Badillo Street (formerly 1200 East San Bernardino Road) in West Covina, California is a RCRA Facility subject to corrective action under the authority of the Hazardous and Solid Waste Amendments of 1984. The facility is subject to corrective action because it was permitted as a treatment, storage, or disposal facility in the past. Although the facility implemented a closure plan and DTSC issued a Clean Closure Certification Acknowledgement dated November 23, 1994, the facility continues to be subject to corrective action because a determination of completeness for corrective action has not been issued. In order for DTSC to determine that corrective action is no longer necessary for the facility, a RCRA Facility Assessment must be conducted.

Please complete and return the enclosed RCRA Facility Assessment Questionnaire within 60 days of receipt of this letter. The Questionnaire will be used to determine whether additional investigation is needed at the facility and to conduct a RCRA Facility Assessment. Submittal of this questionnaire requires a certification by the principal executive officer or a duly authorized representative.

RC, rjb
RC19W.028

Printed on Recycled Paper

If you have any questions regarding this letter, please call me at (916) 255-3601.

Sincerely,

Ruth Cayabyab

Ruth Cayabyab
Hazardous Substances Engineer
Northern California Permitting and Corrective Action Branch

Enclosure

cc: Ms. Pauline Batarseh
Supervising Hazardous Substances Engineer
Northern California Permitting and Corrective Action Branch
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200

RC, rjb
RC19W.028

Linda S. Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Arnold Schwarzenegger
Governor

RCRA FACILITY ASSESSMENT QUESTIONNAIRE

INSTRUCTIONS

Pursuant to Section 3007 of the Resource Conservation and Recovery Act (RCRA) as amended by the Hazardous and Solid Waste Amendments, and Section 25358.1 of the California Health and Safety Code (H&SC), the Department of Toxic Substances Control requests hazardous waste management facilities that are permitted or operating under Interim Status Documents to provide information in this RCRA Facility Assessment Questionnaire.

Any person handling hazardous waste who fails to provide information requested under the sections cited above within sixty (60) calendar days of the date of receipt of the questionnaire is in violation of hazardous waste laws and regulations and is therefore subject to enforcement actions under Section 3008 of RCRA, and Chapter 6.5, Article 8 of H&SC, and also subject to the revocation of denial (as applicable) of the state and federal hazardous waste facility permits.

All pertinent facility records must be reviewed and all available sources of information investigated in order to obtain the information requested in this questionnaire, including the personal recollection of longtime employees and past owners and operators.

Complete the questionnaire, add pages, and provide self contained documentation, photographs, and drawings as needed. Relevant definitions are provided at the end of the questionnaire.

---

1. Provide facility information as follows:

Facility Name:
EPA ID. Number:
Location Address:
Mailing Address:

Name of Operator:
Operator Address:

Name of Owner:
Owner Address:

Name of Landowner:
Landowner Address:

2. Are there or have there ever been any of the following solid waste management units (existing or closed) at your facility?

Note: Do not include waste management units currently shown in your most recent Part A or Part B permit applications.

	Yes	No
Landfill(s)	_____	_____
Surface Impoundment(s)	_____	_____
Land Farm(s)	_____	_____
Incinerator(s)	_____	_____
Storage Tank(s) (above ground)	_____	_____
Storage Tank(s) (below ground)	_____	_____
Container Storage Area(s)	_____	_____
Container Cleaning Areas or Units	_____	_____
Injection Well(s)	_____	_____
Waste Water Treatment and Pre-Treatment Units	_____	_____
Waste Treatment Units	_____	_____
Transfer Stations and Accumulation Areas	_____	_____
Waste Recycling Operations	_____	_____
Waste Piles	_____	_____
Process Collection Sumps, Collection Basins, etc.	_____	_____
Loading and Unloading Areas for Solid Wastes	_____	_____
Coupling and Decoupling Areas for Transfer of Solid Wastes	_____	_____
Air Emission Control By-product Accumulation Areas	_____	_____
Other Waste Handling Areas	_____	_____

3. If there are "Yes" answers to any of the questions in Number 2 above, please:

a. Provide a description of the wastes that were or are being stored, treated, disposed or otherwise handled in those units.

b. State whether or not the wastes would be considered hazardous and whether or not they contain hazardous constituents regardless of the dates in which the waste management occurred at the units.

c. Include any available data on types and quantities of wastes disposed of in the units, if any, and the dates of disposal.

d. Describe each unit and include information on its capacity, dimensions, and history of installation and modification in chronological order.

e. If the unit was closed under the oversight of a regulatory agency, submit a letter from that agency showing the acceptance of closure activities conducted.

f. If the unit was closed without regulatory agency oversight or approval, submit detailed procedures and activities conducted for clean closure of that unit.

g. Show the specific location of every unit at the facility on a topographic map.

h. Provide any other available information relative to each unit.

i. Include photographs of these units.

4. Are there or have there ever been any of the following installations for the handling, storage and management of hazardous materials at your facility?

	Yes	No
Underground Storage Tanks	_____	_____
Above Ground Storage Tanks	_____	_____
Container Storage Areas	_____	_____
Accumulation Piles	_____	_____
Ponds (lined or unlined)	_____	_____
Process Sumps and Catch Basins	_____	_____
Loading and Unloading Areas	_____	_____
Manufacturing Units or Areas	_____	_____

5. If there are "Yes" answers to any of the items in Number 4 above, please:

a. Provide a description of each installation.

b. List all the hazardous materials ever handled at each unit.

c. Include information on its capacity, dimensions, and history of installation and modification in chronological order.

d. Show the specific location of every installation at the facility in a map.

e. If the unit was closed under the oversight of a regulatory agency, submit a letter from that agency showing the acceptance of closure activities conducted.

f. If the unit was closed without regulatory agency oversight or approval, submit detailed procedures and activities conducted for clean closure of that unit.

e. Provide any other available information relative to these units.

h. Include photographs of these units.

6. For the units noted in Number 2 and Number 4 above and also for those hazardous waste management units indicated in the Part A or Part B permit application, please provide data on any releases of hazardous materials, hazardous wastes, and hazardous constituents to the environment that have occurred in the past or that may still be occurring. A release is defined as any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, or disposing of hazardous waste, hazardous constituents or hazardous materials into the environment (including the abandonment of barrels, containers, and other closed receptacles containing hazardous wastes, hazardous constituents, or hazardous materials). (Environment includes air, soil, groundwater, surface waters, and subsurface gas.)

   Please provide the following information:

   a. Date and type of hazardous wastes, hazardous constituents, or hazardous materials release

   b. Quantity or volume released

   c. Describe nature of release (i.e., spills overflow, ruptured pipe or tank, etc.)

7. For releases listed and described under Number 6 above, provide (for each unit) any analytical data that may be available which would describe the composition, nature and extent of such releases.

8. Provide the dates and information on locations of other product spills, leaks, drippings and other releases which have occurred or are recurring at your facility and any cleanup operations which have occurred relative to these incidents, if any.

9. Provide details of any corrective actions or cleanup operations which were carried out or are in progress under the supervision of any federal, state, or local government agencies.

SIGNATURE AND CERTIFICATION

Submittal of this information must contain the certification below signed by the principal executive officer or by a duly authorized representative of that person. All pertinent facility records must be reviewed and all available sources of information investigated in order to obtain the requested information, including the personal recollection of longtime employees and past owners and operators.

A person handling hazardous waste who fails to provide information requested under Section 3007 of RCRA and H&SC Section 25358.1 and Chapter 6.5, Article 8 or H&SC is in full violation of the law and it is therefore subject to enforcement action under Section 3008 of RCRA, and subject to revocation of denial (as applicable) of its hazardous waste facility permit.

> *"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Name of Operator:
Title:
Name of Company:
Date: Signature: _____

Name of Owner:
Title:
Name of Company:
Date: Signature: _____

Name of Landowner:
Title:
Name of Company:
Date: Signature: _____

DEFINITIONS

"**Facility**" means all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage, resource recovery, disposal, or recycling of hazardous waste. A hazardous waste facility may consist of one or more treatment, transfer, storage, resource recovery, disposal or recycling operational units or combinations of these units.

"**Release**" means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of hazardous waste (including hazardous constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents).

"**Solid Waste Management Unit**" or "**SWMU**" means any unit at which a hazardous waste facility from which hazardous constituents might migrate, irrespective of whether the units were intended for the management of wastes, including but not limited to: container, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators and underground injection wells.

"**Hazardous Waste**" means a hazardous waste as defined in the California Code of Regulations (CCR), Title 22, Section 66261.3. Hazardous waste includes extremely hazardous waste, acutely hazardous waste, RCRA hazardous waste, non-RCRA hazardous waste, and special waste.

"**Hazardous Constituent**" means a constituent that caused the USEPA Administrator to list the hazardous waste in the Code of Federal Regulations (CFR), Title 40, Part 261, Subpart D, or a constituent listed in Table 1 of 40 CFR 261.24.

"**Hazardous Material**" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

"**Solid Waste**" means any discarded material of any form (e.g., liquid, semi-solid, solid, or gaseous) as defined in 22 CCR 66261.2.

DTSC - REGION 3
RECEIVED
DEC 13 1993
FMB - PERMITTING

HUGHES
HUGHES TRAINING, INC.

December 10, 1993

Mr. Joseph Desai
Associate Waste Management Engineer
State of California -
California Environmental Protection Agency
Department of Toxic Substances Control
1011 North Grandview Avenue
Glendale, CA 91201

Re: Application/Fee for Services Request for Hughes Training Incorporated's, West Covina Hazardous Waste Storage Facility Closure.

Dear Mr. Desai:

Hughes Training, Inc. (HTI), requests assistance on the initiation of activities under the Department's Fee for Services Program for closure of the hazardous waste storage facility located at 1200 East San Bernardino Road, West Covina, California 91790. Based upon review of Management Memo #93-HWMP-01, it is understood that this request involves submission of supporting application and documentation per the requirements of the California Environmental Quality Act and as specified by Title 22, Chapter 14 and 15, California Code of Regulations. It is also understood that this requests requires acceptance of the Department's Memorandum of Understanding (MOU), as the operating document for invoicing services rendered to HTI.

HTI provided the department a hard copy of the site's hazardous waste storage facility proposed closure plan in October 1992. This plan is available on diskette, per the specified format,upon request from the Department. This plan was written per the requirements mandated at that time, under Title 22 CCR and the California Health and Safety Code. HTI will provide supporting documentation, schematics, and facility diagrams as necessary, for plan review and revision.

Since closure plan documents have been submitted, will HTI begin the review process at Element 1 or Element 2? Would you please indicate this designation with return of the "Fee for Services" application and MOU correspondence. Also, could you provide

P.O. Box 6171, Arlington, TX 76005-6171
Telephone: (817) 695-2000, Fax: (817) 695-2222

a price schedule that identifies the initial fee and hourly rates associated with commencement and review of the plan?

HTI will provide representation as required to address discussion of plan revisions. As this representation is staffed in Texas, is it possible to estimate the amount of time that the Department expects to require such representation? Additionally, is it possible to provide notification far enough in advance to allow for appropriate arrangements for travel?

As you are aware, the facility is currently vacant. Commencement of facility shut down began in May of 1992. All waste generated from manufacturing operations has been disposed of according to Federal and State Solid & Hazard Waste Regulations. HTI has had the property listed for sale for close to a year. The sale of the property is dependent upon approved closure of the storage facility.

We have recently received an offer that we believe will proceed to negotiation for transaction and sale of the property. Due to this fact, we respectfully request immediate consideration by the Department. We are prepared to commit the time, effort, and energy, to achieve closure of the storage facility. We do not wish to have this closure issue negatively impact any potential property transaction.

If you should need to contact me, I may be reached at (817) 695-2145. Thank you for your immediate attention.

Respectfully,

JW. Teel

Joe W. Teel
Principal Quality/SHEA Engineer

Appendix B
LABORATORY TEST RESULTS

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

April 18, 1989

CLIENT: O.H. Materials Corp.
15355 Manila
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: pH, CAC TOTAL METALS AND EPA METHOD 8240
QC BATCH NUMBER: 89-375
PROJECT: HUGHES, W. COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2269	COMPOSITE OF OHM SAMPLE NOS. B1-389-1'A AND B1-389-5'A	03-31-89	04-03-89
MA2270	COMPOSITE OF OHM SAMPLE NOS. B1-389-10'A AND B1-389-15'A	03-31-89	04-03-89
MA2279	COMPOSITE OF OHM SAMPLE NOS. B2-389-1'A AND B2-389-5'A	03-31-89	04-03-89
MA2280	COMPOSITE OF OHM SAMPLE NOS. B2-389-10'A AND B2-389-15'A	03-31-89	04-03-89
MA2287	COMPOSITE OF OHM SAMPLE NOS. B3-389-1'A AND B3-389-5'A	03-31-89	04-03-89
MA2288	COMPOSITE OF OHM SAMPLE NOS. B3-389-10'A AND B3-389-15'A	03-31-89	04-03-89
MA2297	COMPOSITE OF OHM SAMPLE NOS. B4-389-1'A AND B4-389-5'A	03-31-89	04-03-89
MA2298	COMPOSITE OF OHM SAMPLE NOS. B4-389-10'A AND B4-389-15'A	03-31-89	04-03-89

(Continued...)

PROJECT: HUGHES, W. COVINA, #7087

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2307	COMPOSITE OF OHM SAMPLE NOS. B5-389-5'A AND B5-389-10'A	03-31-89	04-03-89
MA2308	COMPOSITE OF OHM SAMPLE NOS. B5-389-15'A AND B5-389-20'A	03-31-89	04-03-89
MA2317	COMPOSITE OF OHM SAMPLE NOS. B6-389-5'A AND B6-389-10'A	03-31-89	04-03-89
MA2318	COMPOSITE OF OHM SAMPLE NOS. B6-389-15'A AND B6-389-20'A	03-31-89	04-03-89
MA2327	COMPOSITE OF OHM SAMPLE NOS. B7-389-5'A AND B7-389-10'A	03-31-89	04-03-89
MA2328	COMPOSITE OF OHM SAMPLE NOS. B7-389-15'A AND B7-389-20'A	03-31-89	04-03-89
MA2337	COMPOSITE OF OHM SAMPLE NOS. B8-389-5'A AND B8-389-10'A	03-31-89	04-03-89
MA2338	COMPOSITE OF OHM SAMPLE NOS. B8-389-15'A AND B8-389-20'A	03-31-89	04-03-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by:

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

4/20/89
Date

PROJECT: HUGHES, W. COVINA, #7087

pH ANALYSIS

Sample Number	Client ID	EPA Prep Method	Prep Date	EPA Analysis Method	Analysis Date	Result	Detection Limit
MA2269	B1-389-1'A & B1-389-5'A	9040	04-05-89	9040	04-05-89	7.4	NA
MA2270	B1-389-10'A & B1-389-15'A	9040	04-05-89	9040	04-05-89	7.9	NA
MA2279	B2-389-1'A & B2-389-5'A	9040	04-05-89	9040	04-05-89	7.7	NA
MA2280	B2-389-10'A & B2-389-15'A	9040	04-05-89	9040	04-05-89	7.2	NA
MA2287	B3-389-1'A & B3-389-5'A	9040	04-05-89	9040	04-05-89	7.8	NA
MA2288	B3-389-10'A & B3-389-15'A	9040	04-05-89	9040	04-05-89	8.0	NA
MA2297	B4-389-1'A & B4-389-5'A	9040	04-05-89	9040	04-05-89	8.0	NA
MA2298	B4-389-10'A & B4-389-15'A	9040	04-05-89	9040	04-05-89	8.1	NA
MA2307	B5-389-5'A & B5-389-10'A	9040	04-05-89	9040	04-05-89	7.7	NA
MA2308	B5-389-15'A & B5-389-20'A	9040	04-05-89	9040	04-05-89	8.1	NA
MA2317	B6-389-5'A & B6-389-10'A	9040	04-05-89	9040	04-05-89	7.4	NA
MA2318	B6-389-15'A & B6-389-20'A	9040	04-05-89	9040	04-05-89	7.3	NA
MA2327	B7-389-5'A & B7-389-10'A	9040	04-05-89	9040	04-05-89	7.2	NA
MA2328	B7-389-15'A & B7-389-20'A	9040	04-05-89	9040	04-05-89	7.1	NA
MA2337	B8-389-5'A & B8-389-10'A	9040	04-05-89	9040	04-05-89	7.4	NA
MA2338	B8-389-15'A & B8-389-20'A	9040	04-05-89	9040	04-05-89	7.4	NA

NA = Not Applicable

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2269
CLIENT ID: B1-389-1'A & B1-389-5'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.5*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	120	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	70	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: HA2270
CLIENT ID: B1-389-10'A & B1-389-15'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.6*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	120	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	60	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2279
CLIENT ID: B2-389-1'A & B2-389-5'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.3*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	70	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	10	10
Total Cobalt	3050	04-05-89	6010	04-06-89	ND	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	10	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	20	10
Total Zinc	3050	04-05-89	6010	04-06-89	30	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2280
CLIENT ID: B2-389-10'A & B2-389-15'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.3*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	120	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	50	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2287
CLIENT ID: B3-389-1'A & B3-389-5'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.0*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	110	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-07-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	60	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2288
CLIENT ID: B3-389-10'A & B3-389-15'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.5*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	80	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	10	10
Total Cobalt	3050	04-05-89	6010	04-06-89	ND	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	10	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	30	10
Total Zinc	3050	04-05-89	6010	04-06-89	40	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2297
CLIENT ID: B4-389-1'A & B4-389-5'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.9*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	110	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	50	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: HA2298
CLIENT ID: B4-389-10'A & B4-389-15'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.0*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	70	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	10	10
Total Cobalt	3050	04-05-89	6010	04-06-89	ND	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	1.1	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	ND	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	20	10
Total Zinc	3050	04-05-89	6010	04-06-89	40	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2307
CLIENT ID: B5-389-5'A & B5-389-10'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.4*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	130	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	50	10
Total Zinc	3050	04-05-89	6010	04-06-89	60	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: HA2308
CLIENT ID: B5-389-15'A & B5-389-20'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	4.4*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	140	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	30	10
Total Cobalt	3050	04-05-89	6010	04-06-89	20	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	10	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-07-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	50	10
Total Zinc	3050	04-05-89	6010	04-06-89	50	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2317
CLIENT ID: B6-389-5'A & B6-389-10'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.3*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	100	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	10	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	40	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2318
CLIENT ID: B6-389-15'A & B6-389-20'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.5*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	140	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	20	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	10	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-07-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	50	10
Total Zinc	3050	04-05-89	6010	04-06-89	80	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2327
CLIENT ID: B7-389-5'A & B7-389-10'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.7*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	120	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	50	10
Total Zinc	3050	04-05-89	6010	04-06-89	60	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MAZ328
CLIENT ID: B7-389-15*A & B7-389-20*A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.4*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	130	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	30	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	50	10
Total Zinc	3050	04-05-89	6010	04-06-89	50	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2337
CLIENT ID: B8-389-5'A & B8-389-10'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	2.9*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	90	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	20	10
Total Cobalt	3050	04-05-89	6010	04-06-89	10	10
Total Copper	3050	04-05-89	6010	04-06-89	20	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	ND	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	40	10
Total Zinc	3050	04-05-89	6010	04-06-89	40	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA2338
CLIENT ID: B8-389-15'A & B8-389-20'A

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	04-05-89	6010	04-06-89	ND	100
Total Arsenic	7061	04-05-89	7061	04-07-89	3.2*	0.5
Total Barium	3050	04-05-89	6010	04-06-89	160	10
Total Beryllium	3050	04-05-89	6010	04-06-89	ND	1
Total Cadmium	3050	04-05-89	6010	04-06-89	ND	10
Total Chromium	3050	04-05-89	6010	04-06-89	30	10
Total Cobalt	3050	04-05-89	6010	04-06-89	20	10
Total Copper	3050	04-05-89	6010	04-06-89	40	10
Total Lead	3050	04-05-89	7420	04-12-89	ND	10
Total Mercury	7471	04-10-89	7471	04-10-89	ND	0.1
Total Molybdenum	3050	04-05-89	6010	04-06-89	10	10
Total Nickel	3050	04-05-89	6010	04-06-89	20	10
Total Selenium	7741	04-05-89	7741	04-06-89	ND	0.1
Total Silver	3050	04-05-89	7760	04-11-89	ND	5
Total Thallium	3050	04-05-89	7840	04-11-89	ND	50
Total Vanadium	3050	04-05-89	6010	04-06-89	60	10
Total Zinc	3050	04-05-89	6010	04-06-89	60	10

ND = None Detected

This sample was processed on an as-received basis.

*The method blank was contaminated with Arsenic at a level of 0.5 mg/kg. All batch QC was acceptable. The contamination level was not subtracted from the sample result.

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-375
Date Extracted: 04-04-89
Date Analyzed: 04-12-89

Sample No.:	MA2269	MA2270	MA2279	MA2280	
Client ID:	B1-389-1'A&5'A	B1-389-10'A&15'A	B2-389-1'A&5'A	B2-389-10'A&15'A	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	0.8	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	0.2	ND	0.2	0.2	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, W. COVINA, #7087

EPA Method 8240 Analyses (con't)

SURROGATE RECOVERIES

Sample No.:	MA2269	MA2270	MA2279	MA2280
Client ID:	B1-389-1'A&5'A	B1-389-10'A&15'A	B2-389-1'A&5'A	B2-389-10'A&15'A
	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	104	100	100	100
Toluene-D8	100	102	102	102
Bromofluorobenzene	100	96	100	100

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-375
Date Extracted: 04-04-89
Date Analyzed: 04-12-89

Sample No.:	MA2287	MA2288	MA2297	MA2298	
Client ID:	B3-389-1'A&5'A	B3-389-10'A&15'A	B4-389-1'A&5'A	B4-389-10'A&15'A	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	0.3	0.4	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, W. COVINA, #7087

EPA Method 8240 Analyses (con't)

SURROGATE RECOVERIES

Sample No.:	MA2287	MA2288	MA2297	MA2298
Client ID:	B3-389-1'A&5'A	B3-389-10'A&15'A	B4-389-1'A&5'A	B4-389-10'A&15'A
	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	100	102	102	100
Toluene-D8	102	102	102	100
Bromofluorobenzene	100	102	102	102

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-375
Date Extracted: 04-04-89

Sample No.:	MA2307	MA2308	MA2317	MA2318	
Client ID:	B5-389-5'A&10'A	B5-389-15'A&20'A	B6-389-5'A&10'A	B6-389-15'A&20'A	
Date Analyzed:	04-12-89	04-12-89	04-13-89	04-13-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	1.3	0.4	0.7	0.3	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, W. COVINA, #7087

EPA Method 8240 Analyses (con't)

SURROGATE RECOVERIES

Sample No.:	MA2307	MA2308	MA2317	MA2318	
Client ID:	B5-389-5'A&10'A	B5-389-15'A&20'A	B6-389-5'A&10'A	B6-389-15'A&20'A	Detection
	Result (%)	Result (%)	Result (%)	Result (%)	
1,2-Dichloroethane-D4	102	102	96	96	
Toluene-D8	102	100	104	104	
Bromofluorobenzene	102	104	98	96	

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-375
Date Extracted: 04-04-89

Sample No.:	MA2327	MA2328	MA2337	MA2338	
Client ID:	B7-389-5'A&10'A	B7-389-15'A&20'A	B8-389-5'A&10'A	B8-389-15'A&20'A	
Date Analyzed:	04-13-89	04-13-89	04-14-89	04-13-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	0.3	0.2	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, W. COVINA, #7087

EPA Method 8240 Analyses (con't)

SURROGATE RECOVERIES

Sample No.:	MA2327	MA2328	MA2337	MA2338
Client ID:	B7-389-5'&10'A	B7-389-15'&20'A	B8-389-5'&10'A	B8-389-15'&20'A
	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	96	98	92	94
Toluene-D8	104	104	104	104
Bromofluorobenzene	96	96	96	96

PROJECT: HUGHES, W. COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8240: PURGEABLE ORGANICS

QC BATCH NUMBER: 89-375

METHOD BLANK SUMMARY

Date:	4-12-89 Result (mg/kg)	4-13-89 Result (mg/kg)	Detection Limit (mg/kg)
Acetone	ND	ND	2.0
Benzene	ND	ND	0.1
Bromodichloromethane	ND	ND	0.1
Bromoform	ND	ND	0.1
Bromomethane	ND	ND	0.2
2-Butanone	ND	ND	0.2
Carbon disulfide	ND	ND	0.1
Carbon tetrachloride	ND	ND	0.1
Chlorobenzene	ND	ND	0.1
Chloroethane	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	0.2
Chloroform	ND	ND	0.1
Chloromethane	ND	ND	0.2
Dibromochloromethane	ND	ND	0.1
1,1-Dichloroethane	ND	ND	0.1
1,2-Dichloroethane	ND	ND	0.1
1,1-Dichloroethene	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	0.1
1,2-Dichloropropane	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	0.1
Ethyl benzene	ND	ND	0.1
2-Hexanone	ND	ND	0.2
Methylene chloride	0.4	0.4	0.1
4-Methyl-2-Pentanone	ND	ND	0.2
Styrene	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	0.1
Tetrachloroethene	ND	ND	0.1
Toluene	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	0.1
Trichloroethene	ND	ND	0.1
Trichlorofluoromethane	ND	ND	0.1
Vinyl acetate	ND	ND	0.2
Vinyl chloride	ND	ND	0.2
Total Xylenes	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CON'T)

PROJECT: HUGHES, W. COVINA, #7087

QC BATCH NUMBER 89-375 METHOD 8240 PURGEABLE ORGANICS (CON'T)

SPIKING SUMMARY

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,1,-Dichloroethene	90	90	0	92	94	2
Trichloroethene	100	105	5	92	92	0
Chlorobenzene	105	110	5	98	100	2
Toluene	105	110	5	102	106	4
Benzene	100	105	5	96	98	2

This batch passes method quality control acceptance criteria.

jmb

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

April 20, 1989

CLIENT: O.H. Materials Corp.
15355 Manila Street
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8080 and EPA METHOD 8270
QC BATCH NUMBER: 89-372 and 89-373
PROJECT: HUGHES, W. COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2269	COMPOSITE OF OHM SAMPLE NOS. B1-389-1'A AND B1-389-5'A	03-31-89	04-03-89
MA2270	COMPOSITE OF OHM SAMPLE NOS. B1-389-10'A AND B1-389-15'A	03-31-89	04-03-89
MA2279	COMPOSITE OF OHM SAMPLE NOS. B2-389-1'A AND B2-389-5'A	03-31-89	04-03-89
MA2280	COMPOSITE OF OHM SAMPLE NOS. B2-389-10'A AND B2-389-15'A	03-31-89	04-03-89
MA2287	COMPOSITE OF OHM SAMPLE NOS. B3-389-1'A AND B3-389-5'A	03-31-89	04-03-89
MA2288	COMPOSITE OF OHM SAMPLE NOS. B3-389-10'A AND B3-389-15'A	03-31-89	04-03-89
MA2297	COMPOSITE OF OHM SAMPLE NOS. B4-389-1'A AND B4-389-5'A	03-31-89	04-03-89
MA2298	COMPOSITE OF OHM SAMPLE NOS. B4-389-10'A AND B4-389-15'A	03-31-89	04-03-89

(Continued...)

PROJECT: HUGHES, W. COVINA, #7087

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2307	COMPOSITE OF OHM SAMPLE NOS. B5-389-5'A AND B5-389-10'A	03-31-89	04-03-89
MA2308	COMPOSITE OF OHM SAMPLE NOS. B5-389-15'A AND B5-389-20'A	03-31-89	04-03-89
MA2317	COMPOSITE OF OHM SAMPLE NOS. B6-389-5'A AND B6-389-10'A	03-31-89	04-03-89
MA2318	COMPOSITE OF OHM SAMPLE NOS. B6-389-15'A AND B6-389-20'A	03-31-89	04-03-89
MA2327	COMPOSITE OF OHM SAMPLE NOS. B7-389-5'A AND B7-389-10'A	03-31-89	04-03-89
MA2328	COMPOSITE OF OHM SAMPLE NOS. B7-389-15'A AND B7-389-20'A	03-31-89	04-03-89
MA2337	COMPOSITE OF OHM SAMPLE NOS. B8-389-5'A AND B8-389-10'A	03-31-89	04-03-89
MA2338	COMPOSITE OF OHM SAMPLE NOS. B8-389-15'A AND B8-389-20'A	03-31-89	04-03-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

4/21/89
Date

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-372
Date Extracted: 04-06-89

Sample No.:	MA2269	MA2270	MA2279	MA2280	
Client ID:	B1-389-1'A&5'A	B1-389-10'A&15'A	B2-389-1'A&5'A	B2-389-10'A&15'A	
Date Analyzed:	04-18-89	04-18-89	04-18-89	04-18-89	Detection
	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Limit (ug/kg)
Aldrin	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	250
4,4'-DDD	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	20

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-372
Date Extracted: 04-06-89

Sample No.:	MA2287	MA2288	MA2297	MA2298	
Client ID:	B3-389-1'A&5'A	B3-389-10'A&15'A	B4-389-1'A&5'A	B4-389-10'A&15'A	
Date Analyzed:	04-18-89	04-18-89	04-18,19-89	04-18,19-89	Detection
	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Limit (ug/kg)
Aldrin	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	250
4,4'-DDD	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	20

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-372
Date Extracted: 04-06-89

Sample No.:	MA2307	MA2308	MA2317	MA2318	
Client ID:	B5-389-5'A&10'A	B5-389-15'A&20'A	B6-389-5'A&10'A	B6-389-15'A&20'A	
Date Analyzed:	04-19-89	04-19-89	04-19-89	04-19-89	Detection
	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Limit (ug/kg)
Aldrin	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	250
4,4'-DDD	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	20

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC BATCH NUMBER: 89-373
Date Extracted: 04-07-89

Sample No.:	MA2269	MA2270	MA2279	MA2280	
Client ID:	B1-389-1'A&5'A	B1-389-10'A&15'A	B2-389-1'A&5'A	B2-389-10'A&15'A	
Date Analyzed:	04-14-89	04-14-89	04-14-89	04-14-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	0.6	0.5	0.5	0.5	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

PROJECT: HUGHES, W. COVINA, #7087

Sample No.:	MA2269	MA2270	MA2279	MA2280	
Client ID:	B1-389-1'A&5'A	B1-389-10'A&15'A	B2-389-1'A&5'A	B2-389-10'A&15'A	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	46	50	46	46
Phenol d5	63	70	66	60
2,4,6-Tribromophenol	83	98	100	80
Nitrobenzene d5	56	62	59	69
2-Fluorobiphenyl	61	68	67	56
4-Terphenyl d14	73	82	84	69

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC BATCH NUMBER: 89-373
Date Extracted: 04-07-89

Sample No.:	MA2287	MA2288	MA2297	MA2298	
Client ID:	B3-389-1'A&5'A	B3-389-10'A&15'A	B4-389-1'A&5'A	B4-389-10'A&15'A	
Date Analyzed:	04-13-89	04-13-89	04-13-89	04-13-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	0.5	ND	0.4	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

PROJECT: HUGHES, W. COVINA, #7087

Sample No.:	MA2287	MA2288	MA2297	MA2298	
Client ID:	B3-389-1'A&5'A	B3-389-10'A&15'A	B4-389-1'A&5'A	B4-389-10'A&15'A	
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	44	52	52	63
Phenol d5	62	74	72	85
2,4,6-Tribromophenol	91	100	103	122
Nitrobenzene d5	55	67	65	74
2-Fluorobiphenyl	62	71	70	79
4-Terphenyl d14	77	83	81	95

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC BATCH NUMBER: 89-373
Date Extracted: 04-07-89

Sample No.:	MA2307	MA2308	MA2317	MA2318	
Client ID:	B5-389-5'A&10'A	B5-389-15'A&20'A	B6-389-5'A&10'A	B6-389-15'A&20'A	
Date Analyzed:	04-14-89	04-14-89	04-14-89	04-14-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	ND	0.4	0.4	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

PROJECT: HUGHES, W. COVINA, #7087

Sample No.:	MA2307	MA2308	MA2317	MA2318	
Client ID:	B5-389-5'A&10'A	B5-389-15'A&20'A	B6-389-5'A&10'A	B6-389-15'A&20'A	
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	58	58	48	50
Phenol d5	83	78	64	67
2,4,6-Tribromophenol	112	113	76	91
Nitrobenzene d5	70	66	58	61
2-Fluorobiphenyl	79	71	61	64
4-Terphenyl d14	94	92	65	81

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC BATCH NUMBER: 89-373
Date Extracted: 04-07-89

Sample No.:	MA2327	MA2328	MA2337	MA2338	
Client ID:	B7-389-5'A&10'A	B7-389-15'A&20'A	B8-389-5'A&10'A	B8-389-15'A&20'A	
Date Analyzed:	04-14-89	04-14-89	04-14-89	04-14-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	ND	0.4	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

PROJECT: HUGHES, W. COVINA, #7087

Sample No.:	MA2327	MA2328	MA2337	MA2338	
Client ID:	B7-389-5'A&10'A	B7-389-15'A&20'A	B8-389-5'A&10'A	B8-389-15'A&20'A	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	57	52	56	54
Phenol d5	79	74	76	73
2,4,6-Tribromophenol	100	92	105	89
Nitrobenzene d5	70	67	70	64
2-Fluorobiphenyl	75	74	77	67
4-Terphenyl d14	92	82	93	79

ND = None Detected

PROJECT: HUGHES, W. COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-372
DATE ANALYZED: 04-18-89

				-MATRIX SPIKES-		
Analyte	Method Blank (ug/kg)	QC CHECK Sample Recovery (%)	Sample Result (ug/kg)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
Aldrin	ND	104	ND	110	114	3.6
a-BHC	ND	94	ND	94	96	2.1
b-BHC	ND	176	ND	180	158	13
d-BHC	ND	54	ND	54	54	0
g-BHC	ND	86	ND	80	88	9.5
Chlordane	ND	*	ND	*	*	*
4,4'-DDD	ND	76	ND	80	78	2.5
4,4'-DDE	ND	78	ND	84	82	4.6
4,4'-DDT	ND	122	ND	136	128	6.1
Dieldrin	ND	76	ND	80	78	2.5
Endosulfan I	ND	78	ND	86	82	4.9
Endosulfan II	ND	76	ND	80	78	2.5
Endosulfan Sulfate	ND	86	ND	84	88	4.6
Endrin	ND	96	ND	108	104	3.8
Endrin Aldehyde	ND	66	ND	66	68	3.0
Heptachlor	ND	132	ND	116	120	3.4
Heptachlor Epoxide	ND	84	ND	92	92	0
Methoxychlor	ND	*	ND	*	*	*
Toxaphene	ND	*	ND	*	*	*
PCB'S	ND	*	ND	*	*	*

ND = None Detected

*These compounds were not part of the QC check sample or the matrix spiking solution.

This batch passes method quality control acceptance criteria.

PROJECT: HUGHES, W. COVINA, #7087

QC BATCH NUMBER 89-373, EPA METHOD 8270: GC/MS SEMI VOLATILE ORGANICS (CON'T)

	- QC CHECK SAMPLES -			- MATRIX SPIKES -		
	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,2,4-Trichlorobenzene	4	58	174	60	55	9
Acenapthene	22	68	102	66	67	1
2,4-Dinitrotoluene	49	71	37	66	69	4
Di-n-butylphthalate	65	72	10	56	62	8
Pyrene	75	84	11	75	78	4
n-Nitroso-Di-n-propylamine	11	60	136	66	63	5
1,4-Dichlorobenzene	3	50	181	51	48	6
Pentachlorophenol	8	98	20	95	88	8
Phenol	2	48	184	52	53	2
2-Chlorophenol	3	54	182	57	55	4
4-Chloro-3-Methylphenol	18	70	118	66	70	6
4-Nitrophenol	80	138	53	102	119	15

This batch passes method quality control acceptance criteria.

jmb

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 1, 1989

CLIENT: O.H. Materials Corp.
15355 Minila Street
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8240, CAC METALS AND pH
QC BATCH NUMBER: 89-420
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2647	OH9-489-6&9'	04-14-89	04-17-89
MA2652	OH9-489-12&15'	04-14-89	04-17-89
MA2657	OH10-489-6&9'	NOT SPECIFIED	04-17-89
MA2662	OH10-489-12&15'	NOT SPECIFIED	04-17-89
MA2667	OH11-489-6&9'	NOT SPECIFIED	04-17-89
MA2672	OH11-489-12&15	NOT SPECIFIED	04-17-89
MA2677	OH12-489-6&9'	NOT SPECIFIED	04-17-89
MA2682	OH12-489-12&15'	NOT SPECIFIED	04-17-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

5/3/89
Date

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC Batch Number: 89-420
Date Extracted: 04-20-89
Date Analyzed: 04-21-89

Sample No.:	MA2647	MA2652	MA2657	MA2662	
Client ID:	OH9-489-6&9'	OH9-489-12&15'	OH10-489-6&9'	OH10-489-12&15'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS (con't)

SURROGATE RECOVERIES

QC Batch Number: 89-420
Date Extracted: 04-20-89
Date Analyzed: 04-21-89

Sample No.:	MA2647	MA2652	MA2657	MA2662
Client ID:	OH9-489-6&9'	OH9-489-12&15'	OH10-489-6&9'	OH10-489-12&15'
	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	102	98	100	96
Toluene-D8	102	104	104	104
Bromofluorobenzene	100	100	98	96

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC Batch Number: 89-420
Date Extracted: 04-20-89
Date Analyzed: 04-21-89

Sample No.:	MA2667	MA2672	MA2677	MA2682	
Client ID:	OH11-489-6&9'	OH11-489-12&15'	OH12-489-6&9'	OH12-489-12&15'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

ND = None Detected

(EPA METHOD 8240 CONTINUED...)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS (con't)

SURROGATE RECOVERIES

QC Batch Number: 89-420
Date Extracted: 04-20-89
Date Analyzed: 04-21-89

Sample No.:	MA2667	MA2672	MA2677	MA2682
Client ID:	OH11-489-6&9'	OH11-489-12&15'	OH12-489-6&9'	OH12-489-12&15'
	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	100	98	98	96
Toluene-D8	102	102	102	102
Bromofluorobenzene	96	98	98	96

PROJECT: HUGHES, WEST COVINA, #7087

CAC METALS AND pH

Analyte	Prep Method	Prep Date	Analysis Method	Analysis Date	Detection Limit mg/kg	MA2647 OH9-489-6&9' Result mg/kg	MA2652 OH9-489-12&15' Result mg/kg	MA2657 OH10-489-6&9' Result mg/kg	MA2662 OH10-489-12&15' Result mg/kg
Total Antimony	EPA 3050	4-20-89	EPA 6010	4-21-89	100	ND	ND	ND	100
Total Arsenic	EPA 3050	4-20-89	EPA 7060	4-25-89	1	3	3	3	3
Total Barium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	110	120	110	150
Total Beryllium	EPA 3050	4-20-89	EPA 6010	4-21-89	1	ND	ND	ND	ND
Total Cadmium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	ND	ND	ND	ND
Total Chromium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	20	20	20	30
Total Cobalt	EPA 3050	4-20-89	EPA 6010	4-21-89	10	10	10	10	20
Total Copper	EPA 3050	4-20-89	EPA 6010	4-21-89	10	30	50	30	40
Total Lead	EPA 3050	4-20-89	EPA 7420	4-21-89	10	ND	ND	ND	ND
Total Mercury	EPA 7471	4-26-89	EPA 7471	4-26-89	0.1	ND	0.1	ND	0.1
Total Molybdenum	EPA 3050	4-20-89	EPA 6010	4-21-89	10	ND	ND	ND	10
Total Nickel	EPA 3050	4-20-89	EPA 6010	4-21-89	10	20	20	20	30
Total Selenium	EPA 3050	4-20-89	EPA 7740	4-24-89	1	ND	ND	ND	ND
Total Silver	EPA 3050	4-20-89	EPA 7760	4-21-89	5	ND	ND	ND	ND
Total Thallium	EPA 3050	4-20-89	EPA 7840	4-21-89	50	ND	ND	ND	ND
Total Vanadium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	40	50	40	60
Total Zinc	EPA 3050	4-20-89	EPA 6010	4-21-89	10	60	60	50	70
pH	EPA 9040	4-19-89	EPA 9040	4-19-89	NA	8.2	8.3	8.1	8.3

ND = None Detected
NA = Not Applicable

This sample was processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC METALS AND pH

Analyte	Prep Method	Prep Date	Analysis Method	Analysis Date	Detection Limit mg/kg	MA2667 OH11-489-6&9* Result mg/kg	MA2672 OH11-489-12&15* Result mg/kg	MA2677 OH12-489-6&9* Result mg/kg	MA2682 OH12-489-12&15* Result mg/kg
Total Antimony	EPA 3050	4-20-89	EPA 6010	4-21-89	100	ND	ND	ND	ND
Total Arsenic	EPA 3050	4-20-89	EPA 7060	4-25-89	1	3	2	2	2
Total Barium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	120	110	150	140
Total Beryllium	EPA 3050	4-20-89	EPA 6010	4-21-89	1	ND	ND	ND	ND
Total Cadmium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	ND	ND	ND	ND
Total Chromium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	20	20	30	30
Total Cobalt	EPA 3050	4-20-89	EPA 6010	4-21-89	10	10	10	10	20
Total Copper	EPA 3050	4-20-89	EPA 6010	4-21-89	10	40	40	40	50
Total Lead	EPA 3050	4-20-89	EPA 7420	4-21-89	10	10	ND	ND	ND
Total Mercury	EPA 7471	4-26-89	EPA 7471	4-26-89	0.1	ND	0.1	0.1	ND
Total Molybdenum	EPA 3050	4-20-89	EPA 6010	4-21-89	10	ND	ND	ND	ND
Total Nickel	EPA 3050	4-20-89	EPA 6010	4-21-89	10	20	20	20	20
Total Selenium	EPA 3050	4-20-89	EPA 7740	4-24-89	1	ND	ND	ND	ND
Total Silver	EPA 3050	4-20-89	EPA 7760	4-21-89	5	ND	ND	ND	ND
Total Thallium	EPA 3050	4-20-89	EPA 7840	4-21-89	50	ND	ND	ND	ND
Total Vanadium	EPA 3050	4-20-89	EPA 6010	4-21-89	10	40	50	50	50
Total Zinc	EPA 3050	4-20-89	EPA 6010	4-21-89	10	60	60	60	70
pH	EPA 9040	4-19-89	EPA 9040	4-19-89	NA	7.7	8.2	7.9	8.2

ND = None Detected
NA = Not Applicable

This sample was processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-420

METHOD BLANK SUMMARY

Date:	4-21-89 Result (mg/kg)	4-24-89 Result (mg/kg)	Detection Limit (mg/kg)
Acetone	ND	ND	0.2
Benzene	ND	ND	0.1
Bromodichloromethane	ND	ND	0.1
Bromoform	ND	ND	0.1
Bromomethane	ND	ND	0.2
2-Butanone	ND	ND	0.2
Carbon disulfide	ND	ND	0.1
Carbon tetrachloride	ND	ND	0.1
Chlorobenzene	ND	ND	0.1
Chloroethane	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	0.2
Chloroform	ND	ND	0.1
Chloromethane	ND	ND	0.2
Dibromochloromethane	ND	ND	0.1
1,1-Dichloroethane	ND	ND	0.1
1,2-Dichloroethane	ND	ND	0.1
1,1-Dichloroethene	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	0.1
1,2-Dichloropropane	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	0.1
Ethyl benzene	ND	ND	0.1
2-Hexanone	ND	ND	0.2
Methylene chloride	ND	0.2	0.1
4-Methyl-2-Pentanone	ND	ND	0.2
Styrene	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	0.1
Tetrachloroethene	ND	ND	0.1
Toluene	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	0.1
Trichloroethene	ND	ND	0.1
Trichlorofluoromethane	ND	ND	0.1
Vinyl acetate	ND	ND	0.2
Vinyl chloride	ND	ND	0.2
Total Xylenes	ND	ND	0.1

ND = None Detected

(8240 QC CONTINUED....)

PROJECT: HUGHES, WEST COVINA, #7087

QC BATCH NUMBER 89-420, EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS (CON'T)

SPIKING SUMMARY

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,1,-Dichloroethene	85	80	6	98	96	2
Trichloroethene	100	100	0	100	100	0
Chlorobenzene	100	100	0	100	100	0
Toluene	100	100	0	106	104	2
Benzene	95	95	0	104	110	6

This batch passes method quality control acceptance criteria.

jmb

ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. _____ ETC Job # _____

CHAIN OF CUSTODY FORM (CC1) LAB FILE

Date Sealed _____ By: _____

Company: OHM Attn.: K. GIBSON

Facility/Site: PROJ # 7087, HUGHES, W. COVINA Phone: (714) 350-1243

Address: 3900 Industrial Blvd. West Sacramento, CA 95691

SAMPLE IDENTIFICATION

Facility: _____ (Facility/Site Code) _____ (Optional Sample Point Descriptions)

Sample Point: _-OH9-489-9' 890414 ___ ___

Source Code (from below) | Your Sample Point ID (left justify) | Start Date (YY/MM/DD) | Start Time (2400 hr. clock) | Elapsed Hours (composite)

Source Codes:

Well ..(W) Outfall.....(O) Bottom Sediment ....(B) Surface Impoundment....(I) Leachate Collection Sys.....(C) Other .....(X)

Soil ....(S) River/Stream..(R) Generation Point ....(G) Treatment Facility .....(T) Lake/Ocean .....(L) Specify _____

SHUTTLE CONTENTS

BOTTLE No	BOTTLE Type	BOTTLE Size	BOTTLE Preserv.	ANALYSIS	SAMPLER Filt. (Y/N)	SAMPLER Observations	LAB Observations
1	BRASS TUBE	6"		8240, 8270, 8080, MA 7645			
				CAM METALS, PH			
				COMPOSITE W/ OH9-489-6'	MA 2643		
1	BRASS TUBE	6"		HOLD (DUP) MA 2646			

CHAIN OF CUSTODY CHRONICLE

RELINQUISHED BY

1. ~~Shuttle Opened~~ By: (print) FED. EX. Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

2. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

3. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

4. Shuttle Sealed By: (print) _____ Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

LAB USE ONLY Opened By: _____ Date: 4-17-89 Time: 1015 hr

SHUTTLE # _____ TEMP. °C _____ SEAL # _____ COND. _____

ENVIRONMENTAL TESTING and CERTIFICATION Seal No. _____ ETC Job # _____

CHAIN OF CUSTODY FORM (CC1) LAB FILE Date Sealed _____ By: _____

Company: OHM Attn.: K. GIBSON

Facility/Site: PROJ. # 7087, HUGHES, W. COVINA Phone: (714) 350-1243

Address: 3900 Industrial Blvd. West Sacramento, CA 95691

SAMPLE IDENTIFICATION

Facility: _____ (Facility/Site Code) _____ (Optional Sample Point Descriptions)

Sample Point: L-OH9-489-12' (Source Code (from below); Your Sample Point ID (left justify)) 3/9/04/14 (Start Date (YY/MM/DD)) ____ (Start Time (2400 hr. clock)) ____ (Elapsed Hours (composite))

Source Codes:
Well ..(W) Outfall.....(O) Bottom Sediment ....(B) Surface Impoundment....(I) Leachate Collection Sys.....(C) Other .....(X)
Soil ...(S) River/Stream..(R) Generation Point ....(G) Treatment Facility .....(T) Lake/Ocean .....(L) Specify _____

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	GLASS TUBE	6"		8240, 8270, 8080, MA 2650			
				CAM METALS, PH 4			
				COMPOSITE W/ OH9-489-12'	MA 2652		
1	BRASS TUBE	6"		HOLD (DUP) MA 2651			

CHAIN OF CUSTODY CHRONICLE

1. RELINQUISHED ~~Shuttle Opened~~ By: (print) FED. EX. Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

2. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

3. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

4. Shuttle Sealed By: (print) _____ Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

LAB USE ONLY Opened By: _____ Date: 4.17.89 Time: 1015 AM

SHUTTLE # _____ TEMP. °C _____ SEAL # _____ COND. _____

ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. _____ ETC Job # _____

CHAIN OF CUSTODY FORM (CC1)

LAB FILE Date Sealed _____ By: _____

Company: OHM Attn.: K. GIBSON

Facility/Site: PROJ. # 7087, HUGHES, W. COVINA Phone: (714) 350-1243

Address: 3900 Industrial Blvd. West Sacramento, CA 95691

SAMPLE IDENTIFICATION

Facility: _____ (Facility/Site Code) _____ (Optional Sample Point Descriptions)

Sample Point: H OH9-489-12' 8 9 0 4 1 4 _____ _____

Source Code (from below) | Your Sample Point ID (left justify) | Start Date (YY/MM/DD) | Start Time (2400 hr. clock) | Elapsed Hours (composite)

Source Codes:

Well ..(W) Outfall.....(O) Bottom Sediment ....(B) Surface Impoundment....(I) Leachate Collection Sys.....(C) Other .....(X)

Soil ...(S) River/Stream ..(R) Generation Point ....(G) Treatment Facility .....(T) Lake/Ocean .....(L) Specify _____

SHUTTLE CONTENTS

BOTTLE No	BOTTLE Type	BOTTLE Size	BOTTLE Preserv.	ANALYSIS	SAMPLER Filt. (Y/N)	SAMPLER Observations	LAB Observations
1	BRASS TUBE	6"		8240, 8270, 8080 MA2648			
				CAM METALS, PH 4			
				COMPOSITE W/ OH9-489-15'	MA	2652	
1	BRASS TUBE	6"		HOLD (DUP) MA2649			

CHAIN OF CUSTODY CHRONICLE

1. ~~Shuttle Opened~~ By: (print) RELINQUISHED BY FED. EX. Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

2. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

3. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: _____ Time: _____ Remarks: _____

4. Shuttle Sealed By: (print) _____ Date: _____ Time: _____
   Signature: _____ Seal #: _____ Intact: _____

LAB USE ONLY Opened By: _____ Date: 4.14.89 Time: 1015 EST

SHUTTLE # _____ TEMP. °C _____ SEAL # _____ COND. _____

OHM

Billing: W. Saeto
Reports: K. Gibson, W. Saeto

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69311

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES	W. COVINA

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
708.7		714/350 1243

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
ED CLIFFORD	K. GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	WH10-4/89-6'					MA 2653 SOIL	1	EPA METHOD 8240 / EPA 6270 / EPA 4020 / CAM METALS / TPH / HOLD	COMPOSITE W/ OH10-4/89-1'
2	WH10-4/89-6'	DUP				MA 2654	1		
3	WH10-4/89-9'					MA 2655 Comp. MA 2653	1		COMPOSITE W/ OH10-4/89-6'
4	WH10-4/89-9'	DUP.				MA 2656	1		
5	OH10-4/89-12'					MA 2658	1		COMPOSITE W/OH10-4/89-1'
6	WH10-4/89-12'	DUP.				MA 2659	1		
7	WH10-4/89-15'					MA 2660 Comp. MA 2662	1		COMPOSITE W/OH10-4/89-12'
8	WH10-4/89-15'	DUP.				MA 2661	1		
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-7		FED. EX		
2					
3					
4		FED EX		4/14/89	1015

REMARKS: TWO SAMPLES TOTAL
Please Phone results to 714/350-1243 / Contact Kevin Gibson concerning amount of samples
This COC is for hole 9 & 10
Kevin K. Gibson

SAMPLER'S SIGNATURE

Copy to: K. Gibson, W. Facto

OHM Reports: K. Gibson, W. Facto

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69312

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: HUGHES	PROJECT LOCATION: W. COVINA
PROJ. NO.: 7087	PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/350-1243	
CLIENT'S REPRESENTATIVE: ED CLIFFERD	PROJECT MANAGER/SUPERVISOR: K. GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS (GLASS JUGS)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA METHOD 418.1	EPA 8270	EPA 8020	CAM METALS	TCLP	H&S	REMARKS
1	OHH-489-6'				X	~~MA 2659~~ SOIL MA 2613	1	X	X	X	X			Compare w/OHH-489-9'
2	OHH-489-6'	DUP			X	~~MA 2660~~ MA 2664	1					X		
3	OHH-489-9'				X	~~MA 2661~~ MA 2665 Comp. MA 2663	1	X	X	X	X			Composite w/OHH-489-6'
4	OHH-489-9'	DUP			X	~~MA 2662~~ MA 2666	1					X		
5	OHH-489-12'				X	~~MA 2664~~ MA 2668	1	X	X	X	X			Composite w/OHH-489-15'
6	OHH-489-12'	DUP			X	~~MA 2665~~ MA 2669	1					X		
7	OHH-489-15'				X	~~MA 2666~~ Comp. ~~MA 2665~~ MA 2670 MA 2672	1	X	X	X	X			Composite w/OHH-489-12'
8	OHH-489-15'	DUP			X	~~MA 2667~~ MA 2671	1					X		
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-3	[signature]	FED EX		
2					
3					
4				4/17/89	1015

REMARKS: Two samples total. Please phone results to 714/350-1243

SAMPLER'S SIGNATURE: [signature]

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 1

OHM Billing: W. Sacto **CHAIN-OF-CUSTODY RECORD**

Reports: K. Gibson, W. Sacto

Form 0019
Field Technical Services
Rev. 03/88

No. 69313

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES	W. COVINA
PROJ. NO. 7087	PROJECT CONTACT
PROJECT TELEPHONE NO. 714/350-1213	
CLIENT'S REPRESENTATIVE ED CLIFFORD	PROJECT MANAGER/SUPERVISOR K. GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	OH12-1/89-6'	✓			X	~~MA 2670~~ MA 2673	1	X X ✓ ✓	Composite w/OH12-1/89-9'
2	OH12-489-6'	DUP ✓			X	~~MA 2670~~ MA 2674	1	X	
3	OH12-1/89-9'	✓			X	~~MA 2671~~ MA 2675 Corr. MA 2677	1	X ✓ X ✓ ✓	Composite w/OH12-1/89-6'
4	OH12-489-9'	DUP ✓			X	~~MA 2672~~ MA 2676	1	X	
5	OH12-1/89-12'	✓			X	MA 2678	1	X X ✓ ✓	Composite w/OH12-1/89-15'
6	OH12-1/89-12'	DUP ✓			X	MA 2679	1	X	
7	OH12-1/91-15'	✓			X	MA 2680 Corr. MA 2682	1	X X ✓ ✓	Composite w/OH12-1/89-12
8	OH12-1/89-15'	DUP ✓			X	MA 2681	1	X	
9									
10									

Please Hold

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1 - 7		FED. EX		
2					
3					
4		FED. EX.		1/11/89	1015

REMARKS: Two samples total
Please phone results
to 714/350-1213
Kevin K Gibson

SAMPLER'S SIGNATURE

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 1

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 4, 1989

CLIENT: O.H. Materials Corp.
15355 Minila Street
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S
QC BATCH NUMBER: 89-422
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2647	OH9-489-6&9'	04-14-89	04-17-89
MA2652	OH9-489-12&15'	04-14-89	04-17-89
MA2657	OH10-489-6&9'	NOT SPECIFIED	04-17-89
MA2662	OH10-489-12&15'	NOT SPECIFIED	04-17-89
MA2667	OH11-489-6&9'	NOT SPECIFIED	04-17-89
MA2672	OH11-489-12&15	NOT SPECIFIED	04-17-89
MA2677	OH12-489-6&9'	NOT SPECIFIED	04-17-89
MA2682	OH12-489-12&15'	NOT SPECIFIED	04-17-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith — 5/5/89

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

Date

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC Batch Number: 89-422
Date Analyzed: 04-26-89, 05-01-89

Sample No.:	MA2647	MA2652	MA2657	MA2662	
Client ID:	OH9-489-6&9'	OH9-489-12&15'	OH10-489-6&9'	OH10-489-12&15'	
Date Extracted:	04-19-89	04-19-89	04-17-89	04-17-89	Detection
	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Limit (ug/kg)
Aldrin	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	250
4,4'-DDD	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	20

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC Batch Number: 89-422
Date Analyzed: 04-26-89, 05-01-89

Sample No.:	MA2667	MA2672	MA2677	MA2682	
Client ID:	OH11-489-6&9'	OH11-489-12&15'	OH12-489-6&9'	OH12-489-12&15'	
Date Extracted:	04-17-89	04-17-89	04-17-89	04-17-89	Detection
	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Result (ug/kg)	Limit (ug/kg)
Aldrin	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	250
4,4'-DDD	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	20

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-422
DATE ANALYZED: 05-01-89

Analyte	Method Blank (ug/kg)	QC CHECK Sample Recovery (%)	-MATRIX SPIKES- Sample Result (ug/kg)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
Aldrin	ND	102	ND	102	122	18
a-BHC	ND	106	ND	112	112	0
b-BHC	ND	162	ND	180	182	1.1
d-BHC	ND	54	ND	60	124	70
g-BHC	ND	104	ND	114	118	3.4
Chlordane	ND	*	ND	*	*	*
4,4'-DDD	ND	126	ND	154	160	3.8
4,4'-DDE	ND	96	ND	180	194	7.5
4,4'-DDT	ND	82	ND	158	220	45
Dieldrin	ND	90	ND	128	114	12
Endosulfan I	ND	94	ND	96	104	8.0
Endosulfan II	ND	126	ND	154	160	3.8
Endosulfan Sulfate	ND	90	ND	100	110	9.5
Endrin	ND	100	ND	104	114	9.2
Endrin Aldehyde	ND	88	ND	108	114	5.4
Heptachlor	ND	98	ND	114	114	0
Heptachlor Epoxide	ND	90	ND	96	102	6.1
Methoxychlor	ND	*	ND	*	*	*
Toxaphene	ND	*	ND	*	*	*
PCB'S	ND	*	ND	*	*	*

ND = None Detected

*These compounds were not part of the QC check sample or the matrix spiking solution.

This batch passes method quality control acceptance criteria.

jmb

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 9, 1989

CLIENT: O.H. Materials
15355 Minila Street
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE
QC BATCH NUMBER: 89-421
PROJECT: #7087, HUGHES, WEST COVINA
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA2647	OH9-489-6&9'	4-14-89	4-17-89
MA2652	OH9-489-12&15'	4-14-89	4-17-89
MA2657	OH10-489-6&9'	NOT SPECIFIED	4-17-89
MA2662	OH10-489-12&15'	NOT SPECIFIED	4-17-89
MA2667	OH11-489-6&9'	NOT SPECIFIED	4-17-89
MA2672	OH11-489-12&15'	NOT SPECIFIED	4-17-89
MA2677	OH12-489-6&9'	NOT SPECIFIED	4-17-89
MA2682	OH12-489-12&15'	NOT SPECIFIED	4-17-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith
Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

5/24/89
Date

PROJECT: #7087, HUGHES, WEST COVINA

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

Sample No.:	MA2647	MA2652	MA2657	MA2662	MA2667	MA2672	MA2677	MA2682	
Client ID:	OH9-489-6&9'	OH9-489-12&15'	OH10-489-6&9'	OH10-489-12&15'	OH11-489-6&9'	OH11-489-12&15'	OH12-489-6&9'	OH12-38-489-12&15'	
Date extracted:	4-21-89	4-21-89	4-21-89	4-21-89	4-21-89	4-21-89	4-28-89	4-28-89	
Date analyzed:	5-01-89	4-28-89	4-29-89	4-28-89	5-01-89	4-29-89	4-29-89	4-29-89	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit(mg/kg)
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzidine	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3

ND = None Detected

PROJECT: #7087, HUGHES, WEST COVINA

EPA METHOD 8270 CON'T

Sample No.:	MA2647	MA2652	MA2657	MA2662	MA2667	MA2672	MA2677	MA2682	
Client ID:	OH9-489-6&9'	OH9-489-12&15'	OH10-489-6&9'	OH10-489-12&15'	OH11-489-6&9'	OH11-489-12&15'	OH12-489-6&9'	OH12-38-489-12&15'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Hexchlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
N-Nitroso Dimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	0.3

ND = None Detected

PROJECT: #7087, HUGHES, WEST COVINA

EPA METHOD 8270 CON'T

SURROGATE RECOVERIES:

	Percent
MA2647	
2-Fluorophenol	63
Phenol-D6	88
2,4,6-Tribromophenol	88
Nitrobenzene-D5	88
2-Fluorobiphenyl	93
Terphenyl-D14	98
MA2652	
2-Fluorophenol	67
Phenol-D6	94
2,4,6-Tribromophenol	104
Nitrobenzene-D5	79
2-Fluorobiphenyl	92
Terphenyl-D14	83
MA2657	
2-Fluorophenol	64
Phenol-D6	96
2,4,6-Tribromophenol	84
Nitrobenzene-D5	78
2-Fluorobiphenyl	91
Terphenyl-D14	85
MA2662	
2-Fluorophenol	64
Phenol-D6	86
2,4,6-Tribromophenol	96
Nitrobenzene-D5	71
2-Fluorobiphenyl	79
Terphenyl-D14	73

	Percent
MA2667	
2-Fluorophenol	52
Phenol D-6	79
2,4,6-Tribromophenol	69
Nitrobenzene-D5	80
2-Fluorobiphenyl	84
Terphenyl-D14	78
MA2672	
2-Fluorophenol	66
Phenol-D6	88
2,4,6-Tribromophenol	88
Nitrobenzene-D5	75
2-Fluorobiphenyl	82
Terphenyl-D14	75
MA2677	
2-Fluorophenol	62
Phenol-D6	88
2,4,6-Tribromophenol	105
Nitrobenzene-D5	75
2-Fluorobiphenyl	87
Terphenyl-D14	84
MA2682	
2-Fluorophenol	81
Phenol-D6	86
2,4,6-Tribromophenol	104
Nitrobenzene-D5	78
2-Fluorobiphenyl	91
Terphenyl-D14	84

PROJECT: #7087, HUGHES, WEST COVINA

QUALITY ASSURANCE REPORT

EPA METHOD 8270: GC/MS SEMIVOLATILE ORGANICS

QC BATCH NUMBER: 89-421
DATE OF ANALYSIS: 4-28-89

METHOD BLANK SUMMARY

	Method Blank (mg/kg)		Method Blank (mg/kg)
Acenaphthene	ND	Di-n-octylphthalate	ND
Acenaphthylene	ND	Fluoranthene	ND
Anthracene	ND	Fluorene	ND
Benzo(a)anthracene	ND	Hexachlorobenzene	ND
Benzo(b)fluoranthene	ND	Hexachlorobutadiene	ND
Benzo(k)fluoranthene	ND	Hexachlorethane	ND
Benzo(a)pyrene	ND	Hexachlorocyclopentadiene	ND
Benzo(g,h,i)Perylene	ND	Indeno(1,2,3-cd)pyrene	ND
Benzidine	ND	Isophorone	ND
Bis(2-chloroethyl)ether	ND	Naphthalene	ND
Bis(2-chloroethoxy)methane	ND	Nitrobenzene	ND
Bis(2-ethylhexyl)phthalate	ND	N-Nitrosodimethylamine	ND
Bis(2-chloroisopropyl)ether	ND	N-Nitrosodi-n-Propylamine	ND
4-Bromophenyl phenyl ether	ND	N-Nitrosodiphenylamine	ND
Butyl benzyl phthalate	ND	Phenanthrene	ND
2-Chloronaphthalene	ND	Pyrene	ND
4-Chlorophenyl phenyl ether	ND	1,2,4-Trichlorobenzene	ND
Chrysene	ND	4-Chloro-3-methylphenol	ND
Dibenzo(a,h)anthracene	ND	2-Chlorophenol	ND
Di-n-butylphthalate	ND	2,4-Chlorophenol	ND
1,3-Dichlorobenzene	ND	2,4-Dimethylphenol	ND
1,4-Dichlorobenzene	ND	2-Methyl-4,6-Dinitrophenol	ND
1,2-Dichlorobenzene	ND	2-Nitrophenol	ND
3,3'-Dichlorbenzidine	ND	4-Nitrophenol	ND
Diethylphthalate	ND	Pentachlorophenol	ND
Dimethylphthalate	ND	Phenol	ND
2,4-Dinitrotoluene	ND	2,4,6-Trichlorophenol	ND
2,6-Dinitrotoluene	ND	2,4,5-Trichlorophenol	ND

ND = None Detected

(8270 QC CONTINUED)

PROJECT: #7087, HUGHES, WEST COVINA

QC BATCH NUMBER 89-421, EPA METHOD 8270: GC/MS SEMIVOLATILE ORGANICS (CON'T)

	- QC CHECK SAMPLES -			- MATRIX SPIKES -		
	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,2,4-Trichlorobenzene	58	72	22	65	65	0
Acenapthene	61	74	19	73	69	6
2,4-Dinitrotoluene	63	70	10	74	72	3
Di-n-butylphthalate	80	84	5	102	89	14
Pyrene	74	79	6	85	81	5
n-Nitroso-Di-n-propylamine	55	71	25	77	72	7
1,4-Dichlorobenzene	53	64	19	59	58	2
Pentachlorophenol	30	20	40	106	76	33
Phenol	55	64	15	62	58	7
2-Chlorophenol	57	67	16	64	60	6
4-Chloro-3-Methylphenol	70	76	8	76	66	14
4-Nitrophenol	80	93	15	146	139	16

This batch passes method quality control acceptance criteria.

cah

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 23, 1989

CLIENT: O.H. Materials Corporation
15355 Manila
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE
QC BATCH NUMBER: 89-490
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA3187	OH1-589-1'&5'	5-02-89	5-04-89
MA3192	OH1-589-10'&15'	5-02-89	5-04-89
MA3193	OH2-589-5'	5-02-89	5-04-89
MA3199	OH2-589-10'&15'	5-02-89	5-04-89
MA3204	OH3-589-1'&5'	5-02-89	5-04-89
MA3209	OH3-589-10'&15'	5-02-89	5-04-89
MA3214	OH4-589-1'&5'	5-02-89	5-04-89
MA3219	OH4-589-10'&15'	5-02-89	5-04-89
MA3224	OH5-589-5'&10'	5-02-89	5-04-89
MA3229	OH5-589-15'&20'	5-02-89	5-04-89
MA3234	OH6-589-5'&10'	5-02-89	5-04-89
MA3239	OH6-589-15'&20'	5-02-89	5-04-89
MA3244	OH7-589-1'&5'	5-02-89	5-04-89
MA3249	OH7-589-10'&15'	5-02-89	5-04-89
MA3254	OH8-589-5'&10'	5-02-89	5-04-89
MA3259	OH8-589-15'&20'	5-02-89	5-04-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

5/24/89
Date

PROJECT: HUGHES, WEST COVINA, #70874

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC Batch Number: 89-490
Date extracted: 5-09-89
Date analyzed: 5-17-89

Sample Number:	MA3187	
Client ID:	OH1-589-1'&5'	
	Results (mg/kg)	Detection Limits (mg/kg)*
Acenaphthene	ND	2
Acenaphthylene	ND	2
Anthracene	ND	2
Benzidine	ND	2
Benzo(a)anthracene	ND	2
Benzo(b)fluoranthene	ND	2
Benzo(k)fluoranthene	ND	2
Benzo(g,h,i)perylene	ND	2
Benzo(a)pyrene	ND	2
Benzoic acid	ND	10
Benzyl alcohol	ND	2
4-Bromophenyl phenyl ether	ND	2
Butyl benzyl phthalate	ND	2
Di-n-butyl phthalate	ND	2
4-Chloroaniline	ND	2
bis(2-Chloroethoxy)methane	ND	2
bis(2-Chloroethyl)ether	ND	2
bis(2-Chloroisoppropyl)ether	ND	2
4-Chloro-3-methylphenol	ND	2
2-Chloronaphthalene	ND	2
2-Chlorophenol	ND	2
4-Chlorophenyl phenyl ether	ND	2
Chrysene	ND	2
Dibenzo(a,h)anthracene	ND	2
Dibenzofuran	ND	2
1,2-Dichlorobenzene	ND	2
1,3-Dichlorobenzene	ND	2
1,4-Dichlorobenzene	ND	2
3,3'-Dichlorobenzidine	ND	6
2,4-Dichlorophenol	ND	2
diethylphthalate	ND	2
2,4-dimethylphenol	ND	2
Dimethyl phthalate	ND	2
4,6-Dinitro-2-methylphenol	ND	10
2,4-Dinitrophenol	ND	10
2,4-Dinitrotoluene	ND	2
2,6-Dinitrotoluene	ND	2
1,2-Diphenylhydrazine	ND	2
bis(2-Ethylhexyl)phthalate	ND	2
Fluoranthene	ND	2
Fluorene	ND	2

ND = None Detected

(8270 ANALYSES CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

EPA 8270 ANALYSIS (con't)

	MA3187 OH1-589-1'&5' Results (mg/kg)	Detection Limits (mg/kg)*
Hexchlorobutadiene	ND	2
Hexachlorobenzene	ND	2
Hexachlorocyclopentadiene	ND	2
Hexachloroethane	ND	2
Indeno(1,2,3-cd)pyrene	ND	2
Isophorone	ND	2
2-Methylnaphthalene	ND	2
2-Methylphenol	ND	2
4-Methylphenol	ND	2
N-Nitro Dimethylamine	ND	2
Naphthalene	ND	2
2-Nitroaniline	ND	10
3-Nitroaniline	ND	10
4-Nitroaniline	ND	10
Nitrobenzene	ND	2
2-Nitrophenol	ND	2
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2
N-Nitrosodi-n-propylamine	ND	2
di-n-Octyl phthalate	ND	2
Pentachlorophenol	ND	10
Phenanthrene	ND	2
Phenol	ND	2
Pyrene	ND	2
1,2,4-Trichlorobenzene	ND	2
2,4,5-Trichlorophenol	ND	2
2,4,6-Trichlorophenol	ND	2

SURROGATE RECOVERIES

	Result (%)
2-Fluorophenol	55
Phenol d6	64
2,4,6-Tribromophenol	102
Nitrobenzene d5	71
2-Fluorobiphenyl	78
4-Terphenyl d14	88

ND = None Detected

*These detection limits are 6 times higher than usual due to suspected contamination revealed in screening.

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC Batch Number: 89-490
Date extracted: 5-09-89
Date analyzed: 5-17-89

Sample Number:	MA3193	MA3204	MA3214	MA3219	
Client ID:	OH1-589-5'	OH3-589-1'&5'	OH4-589-1'&5'	OH4-589-10'&15'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzidine	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	ND	ND	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
1,2-Diphenylhydrazine	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

ND = None Detected

(8270 ANALYSIS CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270 (con't)

	MA3193 OH1-589-5' Result (mg/kg)	MA3204 OH3-589-1'&5' Result (mg/kg)	MA3214 OH4-589-1'&5' Result (mg/kg)	MA3219 OH4-589-10'&15' Result (mg/kg)	Detection Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
N-Nitroso Dimethylamine	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	59	60	57	57
Phenol d6	67	68	67	66
2,4,6-Tribromophenol	95	102	96	104
Nitrobenzene d5	71	74	71	71
2-Fluorobiphenyl	75	78	100	76
4-Terphenyl d14	86	86	81	91

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC Batch Number: 89-490
Date extracted: 5-09-89
Date analyzed: 5-17-89

Sample Number:	MA3229	MA3234	MA3244	MA3259	
Client ID:	OH5-589-15'&20'	OH6-589-5'&10'	OH7-589-1'&5'	OH8-589-15'&20'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzidine	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	0.4	ND	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
1,2-Diphenylhydrazine	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

ND = None Detected

(8270 ANALYSIS CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270 (con't)

	MA3229 OH5-589-15'&20' Result (mg/kg)	MA3234 OH6-589-5'&10' Result (mg/kg)	MA3244 OH7-589-1'&5' Result (mg/kg)	MA3259 OH8-589-15'&20' Result (mg/kg)	Detection Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
N-Nitroso Dimethylamine	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	58	64	54	54
Phenol d6	66	72	62	62
2,4,6-Tribromophenol	96	98	94	100
Nitrobenzene d5	72	74	67	64
2-Fluorobiphenyl	71	80	74	71
4-Terphenyl d14	83	87	81	78

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC Batch Number: 89-490
Date extracted: 5-09-89
Date analyzed: 5-16-89

Sample Number:	MA3192	MA3199	MA3209	MA3224	
Client ID:	OH1-589-10'&15'	OH2-589-10'&15'	OH3-589-10'&15'	OH5-589-5'&10'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	ND	0.3
Anthracene	ND	ND	ND	ND	0.3
Benzidine	ND	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	ND	0.3
Di-n-butyl phthalate	0.4	ND	ND	ND	0.3
4-Chloroaniline	ND	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	0.3
Chrysene	ND	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	ND	0.3
1,2-Diphenylhydrazine	ND	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	ND	0.3
Fluorene	ND	ND	ND	ND	0.3

ND = None Detected

(8270 ANALYSIS CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270 (con't)

	MA3192 OH1-589-10'&15' Result (mg/kg)	MA3199 OH2-589-10'&15' Result (mg/kg)	MA3209 OH3-589-10'&15' Result (mg/kg)	MA3224 OH5-589-5'&10' Result (mg/kg)	Detection Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.3
Isophorone	ND	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	ND	0.3
N-Nitroso Dimethylamine	ND	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	ND	2
Phenanthrene	ND	ND	ND	ND	0.3
Phenol	ND	ND	ND	ND	0.3
Pyrene	ND	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)	Result (%)
2-Fluorophenol	55	56	60	56
Phenol d6	64	66	70	66
2,4,6-Tribromophenol	102	102	114	111
Nitrobenzene d5	65	68	74	69
2-Fluorobiphenyl	73	74	81	76
4-Terphenyl d14	83	85	90	84

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR SEMIVOLATILE ORGANICS: CAPILLARY COLUMN TECHNIQUE

QC Batch Number: 89-490
Date extracted: 5-09-89
Date analyzed: 5-16-89

Sample Number:	MA3239	MA3249	MA3254	
Client ID:	OH6-589-15'&20'	OH7-589-10'&15'	OH8-589-5'&10'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acenaphthene	ND	ND	ND	0.3
Acenaphthylene	ND	ND	ND	0.3
Anthracene	ND	ND	ND	0.3
Benzidine	ND	ND	ND	0.3
Benzo(a)anthracene	ND	ND	ND	0.3
Benzo(b)fluoranthene	ND	ND	ND	0.3
Benzo(k)fluoranthene	ND	ND	ND	0.3
Benzo(g,h,i)perylene	ND	ND	ND	0.3
Benzo(a)pyrene	ND	ND	ND	0.3
Benzoic acid	ND	ND	ND	2
Benzyl alcohol	ND	ND	ND	0.3
4-Bromophenyl phenyl ether	ND	ND	ND	0.3
Butyl benzyl phthalate	ND	ND	ND	0.3
Di-n-butyl phthalate	ND	ND	ND	0.3
4-Chloroaniline	ND	ND	ND	0.3
bis(2-Chloroethoxy)methane	ND	ND	ND	0.3
bis(2-Chloroethyl)ether	ND	ND	ND	0.3
bis(2-Chloroisoppropyl)ether	ND	ND	ND	0.3
4-Chloro-3-methylphenol	ND	ND	ND	0.3
2-Chloronaphthalene	ND	ND	ND	0.3
2-Chlorophenol	ND	ND	ND	0.3
4-Chlorophenyl phenyl ether	ND	ND	ND	0.3
Chrysene	ND	ND	ND	0.3
Dibenzo(a,h)anthracene	ND	ND	ND	0.3
Dibenzofuran	ND	ND	ND	0.3
1,2-Dichlorobenzene	ND	ND	ND	0.3
1,3-Dichlorobenzene	ND	ND	ND	0.3
1,4-Dichlorobenzene	ND	ND	ND	0.3
3,3'-Dichlorobenzidine	ND	ND	ND	1
2,4-Dichlorophenol	ND	ND	ND	0.3
diethylphthalate	ND	ND	ND	0.3
2,4-dimethylphenol	ND	ND	ND	0.3
Dimethyl phthalate	ND	ND	ND	0.3
4,6-Dinitro-2-methylphenol	ND	ND	ND	2
2,4-Dinitrophenol	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	0.3
2,6-Dinitrotoluene	ND	ND	ND	0.3
1,2-Diphenylhydrazine	ND	ND	ND	0.3
bis(2-Ethylhexyl)phthalate	ND	ND	ND	0.3
Fluoranthene	ND	ND	ND	0.3
Fluorene	ND	ND	ND	0.3

ND = None Detected

(8270 ANALYSIS CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8270 (con't)

	MA3239 OH6-589-15'&20' Result (mg/kg)	MA3249 OH7-589-10'&15' Result (mg/kg)	MA3254 OH8-589-5'&10' Result (mg/kg)	Detection Limit (mg/kg)
Hexchlorobutadiene	ND	ND	ND	0.3
Hexachlorobenzene	ND	ND	ND	0.3
Hexachlorocyclopentadiene	ND	ND	ND	0.3
Hexachloroethane	ND	ND	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.3
Isophorone	ND	ND	ND	0.3
2-Methylnaphthalene	ND	ND	ND	0.3
2-Methylphenol	ND	ND	ND	0.3
4-Methylphenol	ND	ND	ND	0.3
N-Nitroso Dimethylamine	ND	ND	ND	0.3
Naphthalene	ND	ND	ND	0.3
2-Nitroaniline	ND	ND	ND	2
3-Nitroaniline	ND	ND	ND	2
4-Nitroaniline	ND	ND	ND	2
Nitrobenzene	ND	ND	ND	0.3
2-Nitrophenol	ND	ND	ND	0.3
4-Nitrophenol	ND	ND	ND	2
N-Nitrosodiphenylamine	ND	ND	ND	0.3
N-Nitrosodi-n-propylamine	ND	ND	ND	0.3
di-n-Octyl phthalate	ND	ND	ND	0.3
Pentachlorophenol	ND	ND	ND	2
Phenanthrene	ND	ND	ND	0.3
Phenol	ND	ND	ND	0.3
Pyrene	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	ND	ND	ND	0.3
2,4,5-Trichlorophenol	ND	ND	ND	0.3
2,4,6-Trichlorophenol	ND	ND	ND	0.3

SURROGATE RECOVERIES

	Result (%)	Result (%)	Result (%)
2-Fluorophenol	56	55	56
Phenol d6	66	63	66
2,4,6-Tribromophenol	110	102	112
Nitrobenzene d5	66	65	65
2-Fluorobiphenyl	72	73	71
4-Terphenyl d14	85	81	86

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8270: GC/MS SEMIVOLATILE ORGANICS

QC BATCH NUMBER: 89-490
DATE OF ANALYSIS: 5-16-89

METHOD BLANK SUMMARY

	Method Blank (mg/kg)		Method Blank (mg/kg)
Acenaphthene	ND	Di-n-octylphthalate	ND
Acenaphthylene	ND	Fluoranthene	ND
Anthracene	ND	Fluorene	ND
Benzo(a)anthracene	ND	Hexachlorobenzene	ND
Benzo(b)fluoranthene	ND	Hexachlorobutadiene	ND
Benzo(k)fluoranthene	ND	Hexachlorethane	ND
Benzo(a)pyrene	ND	Hexachlorocyclopentadiene	ND
Benzo(g,h,i)Perylene	ND	Indeno(1,2,3-cd)pyrene	ND
Benzidine	ND	Isophorone	ND
Bis(2-chloroethyl)ether	ND	Naphthalene	ND
Bis(2-chloroethoxy)methane	ND	Nitrobenzene	ND
Bis(2-ethylhexyl)phthalate	ND	N-Nitrosodimethylamine	ND
Bis(2-chloroisopropyl)ether	ND	N-Nitrosodi-n-Propylamine	ND
4-Bromophenyl phenyl ether	ND	N-Nitrosodiphenylamine	ND
Butyl benzyl phthalate	ND	Phenanthrene	ND
2-Chloronaphthalene	ND	Pyrene	ND
4-Chlorophenyl phenyl ether	ND	1,2,4-Trichlorobenzene	ND
Chrysene	ND	4-Chloro-3-methylphenol	ND
Dibenzo(a,h)anthracene	ND	2-Chlorophenol	ND
Di-n-butylphthalate	ND	2,4-Chlorophenol	ND
1,3-Dichlorobenzene	ND	2,4-Dimethylphenol	ND
1,4-Dichlorobenzene	ND	2-Methyl-4,6-Dinitrophenol	ND
1,2-Dichlorobenzene	ND	2-Nitrophenol	ND
3,3'-Dichlorbenzidine	ND	4-Nitrophenol	ND
Diethylphthalate	ND	Pentachlorophenol	ND
Dimethylphthalate	ND	Phenol	ND
2,4-Dinitrotoluene	ND	2,4,6-Trichlorophenol	ND
2,6-Dinitrotoluene	ND	2,4,5-Trichlorophenol	ND

ND = None Detected

(8270 QC CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

QC BATCH NUMBER 89-490, EPA METHOD 8270: GC/MS SEMIVOLATILE ORGANICS (CON'T)

	- QC CHECK SAMPLES -			- MATRIX SPIKES -		
	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,2,4-Trichlorobenzene	65	66	2	61	64	5
Acenapthene	73	71	3	66	67	1
2,4-Dinitrotoluene	81	119	38	71	68	4
Di-n-butylphthalate	110	97	13	82	75	8
Pyrene	92	84	9	78	79	1
n-Nitroso-Di-n-propylamine	71	71	0	66	70	6
1,4-Dichlorobenzene	54	57	5	52	56	7
Pentachlorophenol	100	54	60	133	128	4
Phenol	51	54	6	49	52	6
2-Chlorophenol	54	57	5	52	55	6
4-Chloro-3-Methylphenol	80	77	4	70	70	0
4-Nitrophenol	122	90	30	128	34	116

This batch passes method quality control acceptance criteria.

cah

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69525

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Thomas W. Covina
PROJECT LOCATION:
J. NO.: 597
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/338-1243
CLIENT'S REPRESENTATIVE: Ed Clifford
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS / TYPE	ANALYSIS DESIRED (INDICATE REPLACEMENT CONTAINERS)	REMARKS
H-589-1'	5/4/89			✓	Soil MA 3184	1		Composite w/OH1-589-5' MA 3187 Composite
H-589-1'				✓	NO SAMPLE	1		No Sample Recv'd @ 5559
H-589-5'				✓	MA 3185	1		Composite w/OH1-589-1'
H-589-5'				✓	MA 3186	1		
H-589-10'				✓	MA 3188	1		Composite w/OH1-589-15' MA 3192 Composite
H-589-10'				✓	MA 3189	1		
H-589-15'				✓	MA 3190	1		Composite w/OH1-589-10'
H-589-15'				✓	MA 3191	1		
						5		

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-3-8	Lori Rykard			

REMARKS: 2 week turnaround

SAMPLER'S SIGNATURE: Lori Rykard

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 ; 4:35PM ; 34338+ CCITT G3;# 1
MAY 04 '89 13:48 ETC/MULTI-TECH ; 5- 4-89 ; 2:44PM ; CCITT G3+ P.2/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69525

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina	PROJECT LOCATION:		
PROJ. NO.: 7097	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 714/350-1243	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: Kevin Gibson		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS / GLASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 8240, 8270, EPA 8080, CAM METALS, TPH, Hold	REMARKS
1	OH1-589-1'	5/2/89			✓	Soil	1	✓ ✓ ✓ ✓ ✓ ✓	
2	~~OH1-589-1'~~				~~✓~~	NO SAMPLE	~~1~~	✓	
3	OH1-589-5'				✓		1	✓ ✓ ✓ ✓ ✓	
4	OH1-589-5'				✓		1	✓	
5	OH1-589-10'				✓		1	✓ ✓ ✓ ✓ ✓	
6	OH1-589-10'				✓		1	✓	
7	OH1-589-15'				✓		1	✓ ✓ ✓ ✓ ✓	
8	OH1-589-15'				✓		1	✓	
9							½		
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-3-8	Scott Ezekiel			
2					
3					
4					

REMARKS: 1 wk turnaround

SAMPLER'S SIGNATURE: Scott Ezekiel

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes Int. Corridor
PROJECT LOCATION:
O.A. NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/3501243
CLIENT'S REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: K. GIBSON

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
HZ-589-1'	5/4/89			✓	Soil Per Kevin: Run analysis on #5 — therefore no composite	1	ETH 8240 BTEX 8020 EPA 8270 CAM METALS ICAP pH Hold	(82) 5-5-89 NO SAMPLE Recv'd ITEMS
HZ-589-1'				✓	MA 3193	1		COMPOSITE 1 & 3
HZ-589-5'				✓	MA 3194	1		(82) 5-5-89 NO SAMPLE RECV'd
HZ-589-5'				✓	MA 3195	1		OK
HZ-589-10'				✓	MA 3196	1		OK
HZ-589-10'				✓	MA 3197	1		COMPOSITE ITEMS 5 & 7 MA 3199 OK
HZ-589-15'				✓	MA 3198	1		OK
HZ-589-15'				✓		1		OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Kent Ogilvie			

REMARKS: 2 week turnaround

SAMPLER'S SIGNATURE: Kent Ogilvie

LB 5-4-89

A Subsidiary of Environmental Treatment and Technology Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:36PM ; 3433 ; CCITT G3+ ; MAY 04 '89 13:49 ETC/MULTI-TECH ; 5- 4-89 2:45PM ; 3433981# 3 P.3/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Hughes Jct. Columbia	

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
7087		714/3501243

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
ED CLIFFORD	K GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS (Brass Tube)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)							REMARKS
								624	8240	8270	8080	CAM METALS 27	pH	HOLD	
1	042-589-1'	5/1/8			✓	Soil	1	✓	✓	-	-	✓	✓		not need
2	042-589-1'				✓		1							✓	not need
3	042-589-5'				✓		1	✓	✓	✓	✓	✓			
4	042-589-5'				✓		1							✓	
5	042-589-10'				✓		1	✓	✓	-	-	✓			
6	042-589-10'				✓		1							✓	
7	042-589-15'				✓		1	✓	✓	-	-	✓			
8	042-589-15'				✓		1							✓	
9															
10															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-9	Scott Bechtel			
2					
3					
4					

REMARKS

1 week turnaround

SAMPLER'S SIGNATURE: Scott Bechtel

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 3

OHM

CHAIN-OF-CUSTODY RECORD

Form 0818
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 561 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes Int. Collisa
PROJECT LOCATION:
P.O. NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/3501243
CLIENT'S REPRESENTATIVE: ED Clifford
PROJECT MANAGER/SUPERVISOR: K. Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
HB-589-1'	5/4/89			✓	Soil MA 3200	1	EPA 8240 EPA 8270 EPA 8080 CAM METALS TTLC PCB Herb	ITEMS 1 & 3 COMPOSITE MA 3204 OK
HB-589-1'				✓	MA 3201	1		OK
HB-589-5'				✓	MA 3202	1		OK
HB-589-5'				✓	MA 3203	1		OK
HB-589-10'				✓	MA 3205	1		ITEMS 5 & 7 COMPOSITE MA 3209 OK
HB-589-10'				✓	MA 3206	1		OK
HB-589-15'				✓	MA 3207	1		OK
HB-589-15'				✓	MA 3208	1		OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Kurt Bjerkseth			

REMARKS: 2 week turnaround

Kurt Bjerkseth
SAMPLER'S SIGNATURE

5-4-89

A Subsidiary of Environmental Treatment and Technology Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:37PM ; 3433394
MAY 04 '89 13:49 ETC/MULTI-TECH 2145PM ; CCITT 034 P.3/8 3433394 # 3

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69523

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina	PROJECT LOCATION		
PROJ. NO.: 7687	PROJECT CONTACT	PROJECT TELEPHONE NO.: 714/350-1243	
CLIENT'S REPRESENTATIVE: Ed Clifford	PROJECT MANAGER/SUPERVISOR: Kevin Gibson		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS: BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA 8240	EPA 8270	EPA 8080	CAM METALS	pH	Hold	REMARKS
1	~~OH3-589-5'~~	5/6/91			✓	Soil	1	–	–	–	–	–	✓	Rush Sample Lost ignor
2	~~OH3-589-5'~~						1	–	–	–	–	–	✓	Rush Sample Lost ignor
3	OH3-589-5'					Soil	1	–	–	–	–	–		
4	OH3-589-5'						1						✓	
5	OH3-589-10'						1	–	–	–	–	–		
6	OH3-589-10'						1				✓		✓	
7	OH3-589-15'						1	–	–	–	–	–		
8	OH3-589-15'						1						✓	
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	3 - 8	Scott Pyshnyk			
2					
3					
4					

REMARKS: 1 week turnaround

SAMPLER'S SIGNATURE: Scott Pyshnyk

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 3

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

No. 69531

PROJECT NAME: Hughes W. Covina
PROJECT LOCATION:
PROJECT NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714 350-1243
CLIENT'S REPRESENTATIVE: Ed Clifford
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	OH4589-1'	5/4/89			✓	Soil MA 3210	1 Brass Tube	✓	Composite Items 1 & 3 MA 3214 OK
2	OH4589-1'					MA 3211	1	✓	OK
3	OH4589-5'					MA 3212	1	✓	OK
4	OH4589-5'					MA 3213	1	✓	OK
5	OH4589-10'					MA 3215	1	✓	OK
6	OH4589-10'					MA 3216	1	✓	Composite Items 5 & 7 MA 3219 OK
7	OH4589-15'					MA 3217	1	✓	OK
8	OH4589-15'					MA 3218	1	✓	OK
9									OK
10									OK

8260 EPA 624 EPA 625 EPA 8270 EPA 8080 EPA 418.1 TPH Hold

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Dan Bjelland			
2					
3					
4					

REMARKS: 2 wk turnaround

SAMPLER'S SIGNATURE: Dan Bjelland

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

Form: Field Technical Ser... Rev. 8

SENT BY:MAIL STOP INC ; 5- 4-89 4:38PM ; 34338→ CCITT G3; # 4 ... 04 MAY 89 13:50 ETC/MLL-TECH P.4/8

OHM

CHAIN-OF-CUSTODY RECORD

Form C.
Field Technical Service
Rev. 03/88

No. 69531

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	
PROJ. NO. 7087 / PROJECT CONTACT	PROJECT TELEPHONE NO. 714/350-1243
CLIENT'S REPRESENTATIVE ED CLIFFORD	PROJECT MANAGER/SUPERVISOR KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 8240 / 8270 / 8080 / CAM METALS TTLC / pH / Hold	REMARKS
1	OH4-589-1'	5/2/89			✓	Soil	1	✓ ✓ ✓ ✓ ✓	
2	OH4-589-1'						1	✓	
3	OH4-589-5'						1	✓ ✓ ✓ ✓ ✓	
4	OH4-589-5'						1	✓	
5	OH4-589-10'						1	✓ ✓ ✓ ✓ ✓	
6	OH4-589-10'						1	✓	
7	OH4-589-15'						1	✓ ✓ ✓ ✓ ✓	
8	OH4-589-15'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Kate Bezhanek			
2					
3					
4					

REMARKS: 1 wk turnaround

SAMPLER'S SIGNATURE: Kate Bezhanek

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

OHM

CHAIN-OF-CUSTODY RECORD

Form 0965
Field Technical Services
Rev. 03/88

No. 69526

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina
PROJECT LOCATION: 714/350-1243
PROJ. NO.: 1087
PROJECT CONTACT:
PROJECT TELEPHONE NO.:
CLIENT'S REPRESENTATIVE: Ed Clifford
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	OWS-589-5'	5/4/89			✓	Soil MA 3220	Brass Tube	TPH 8240 8270 CAM Metals TTLC pH Hold	
2	OWS-589-5'					MA 3221	1		Composite Items 1 & 3 MA 3224 OK
3	OWS-589-10					MA 3222	1		OK
4	OWS-589-10					MA 3223	1		OK
5	OWS-589-15'					MA 3225	1		OK
6	OWS-589-15'					MA 3226	1		Composite Items 5 & 7 MA 3229 OK
7	OWS-589-20'					MA 3227	1		OK
8	OWS-589-20'					MA 3228	1		OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-8	Scott Ryglewski			

REMARKS: 1 wk turnaround

Scott Ryglewski
SAMPLER'S SIGNATURE

K.B. 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:39PM ; 3433B→ CCITT G3:# 5

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69526

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	714/350-1243
PROJ. NO. 7087	PROJECT CONTACT
PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 8240 / 8270 / 6010 / CAM METALS / TTLC / pH / Hold	REMARKS
							Bypass Tube	EPA # / EPA / EPA	
1	OHS-589-5'	5/2/88			✓	Soil	1	✓ ✓ ✓ ✓ ✓	
2	OHS-589-5'						1	✓	
3	OHS-589-10'						1	✓ ✓ ✓ ✓ ✓	
4	OHS-589-10'						1	✓	
5	OHS-589-15'						1	✓ ✓ ✓ ✓ ✓	
6	OHS-589-15'						1	✓	
7	OHS-589-20'						1	✓ ✓ ✓ ✓ ✓	
8	OHS-589-20'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Bogdanski			
2					
3					
4					

REMARKS: 1 wk TURNAROUND

SAMPLER'S SIGNATURE: Scott Bogdanski

OHM

CHAIN-OF-CUSTODY RECORD

Form 0016
Field Technical Services
Rev. 05/88

No. 69527

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT MANAGER: Hughes W. Cauna
PROJECT LOCATION:
P.O. NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 304/350-1243
LAB'S REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
HL589-5'	5/2/89			✓	Soil MA 3230	1	TPH, TOC, 8240, 8270, CHC Herbs, TCLP, Hold	Composite Items 1-3
HL588-5'					MA 3231	1		OK
HL589-10'					MA 3232	1		OK
HL589-10'					MA 3233	1		OK
HL589-15'					MA 3235	1		OK
HL589-15'					MA 3236	1		Composite Items 5-7
HL589-20'					MA 3237	1		OK
HL589-20'					MA 3238	1		OK
								OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-4	Lisa Popleski			

REMARKS: 2 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Lisa Popleski

LB 5-4-89

A Subsidiary of Environmental Assistance and Technologies Corp.
The Environmental Services Company

LAB COPY

CCITT G3;# 6
34336→ 4:40PM ; 5- 4-89
SENT BY:MAIL STOP INC
MAY 04 '89 13:51 ETC/MULTI-TECH
P.6/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69527

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: HUGHES W. COLUMBIA	PROJECT LOCATION:		
PROJ. NO.: 7087	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 716/350-1243	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)								REMARKS
							BRASS TUBE	TPH	TPH	EPA 8240	EPA 8270	CAM METALS TCLP	PH	HOLD		
1	OH6-589-5'	5/2/89			✓	Soil	1	✓	—	—	✓	—	✓			
2	OH6-589-5'						1							✓		
3	OH6-589-10'						1	✓	—	—	✓	—	✓			
4	OH6-589-10'						1							✓		
5	OH6-589-15'						1	✓	✓	✓	✓	—	✓			
6	OH6-589-15'						1							✓		
7	OH6-589-20'						1	✓	✓	✓	✓	✓				
8	OH6-589-20'						1							✓		
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-9	Scott Pegelow			
2					
3					
4					

REMARKS: 1 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Scott Pegelow

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 3

CHAIN-OF-CUSTODY RECORD

OHM

Form 0019
Field Technical Services
Rev. 03/88

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

No. 69528

PROJECT NAME: Hughes U. Corner
PROJECT NO.: 2087
PROJECT LOCATION:
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 719/358-1243
CLIENT'S REPRESENTATIVE: Ed Cuffaro
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
H7-589-1'	5/4/89			✓	Soil MA 3240	1		
H7-589-1'					MA 3241	1		
H7-589-5'					MA 3242	1		
H7-589-5'					MA 3243	1		
H7-589-10'					MA 3245	1		
H7-589-10'					MA 3246	1		
H7-589-15'					MA 3247	1		
H7-589-15'					MA 3248	1		

Glass Jars

Analysis desired: 624, 625, 8240, 8270, Chr. Metals, TPH, Halo

Composite Items 1-5 MA 3244 — OK
Composite Items 5-7 MA 3249 — OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-8	Lee Replogle			

REMARKS: 2 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Lee Replogle

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:41PM ; CCITT G3;# 7
MAY 04 '89 13:52 ETC/MULTI-TECH CCITT G3+
34336+
34338;# 7
P.7/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69528

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: HUGHES U. COVINA	PROJECT LOCATION:		
PROJ. NO.: 7087	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 714/350-1213	
CLIENT'S REPRESENTATIVE: ED CLIFFORD		PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS: BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA 8240	EPA 8270	EPA 8080	CAM METALS TTLC	pH	Hold	REMARKS
1	HH7-589-1'	5/2/89			✓	Soil	1	✓	✓	✓	✓	✓		
2	HH7-589-1'						1					✓		
3	HH7-589-5'						1	✓	✓	✓	✓	✓		
4	HH7-589-5'						1					✓		
5	HH7-589-10'						1	✓	✓	✓	✓	✓		
6	HH7-589-10'						1					✓		
7	HH7-589-15'						1	✓	✓	✓	✓	✓		
8	HH7-589-15						1					✓		
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Pegelow			
2					
3					
4					

REMARKS

1 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Scott Pegelow

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69530

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
7087		714/350-1243

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
ED CLIFFORD	KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
							BRASS TUBE	EPA 8240 / EPA 8270 / EPA 8080 CAM METALS TTLC pH Hold	
1	BH8-589-5'	5/2/89			✓	SOIL	1	✓ ✓ ✓ ✓ ✓	
2	BH8-589-5'						1	✓	
3	BH8-589-10'						1	✓ ✓ ✓ ✓ ✓	
4	BH8-589-10'						1	✓	
5	BH8-589-15'						1	✓ ✓ ✓ ✓ ✓	
6	BH8-589-15'						1	✓	
7	BH8-589-20'						1	✓ ✓ ✓ ✓ ✓	
8	BH8-589-20'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Boshnak			
2					
3					
4					

REMARKS

1 WEEK TURNAROUND

Scott Boshnak
SAMPLER'S SIGNATURE

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

No. 69530

PROJECT NAME: Hughes W. Corinth
PROJECT LOCATION:
PWSA NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714-360-1243
CLIENT'S REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: Ken Gibson

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	BEAKER TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
	HH-589-5'	5/2/89			✓	Soil MA 3250	1			
	HH-589-5'					MA 3251	1			
	HH-589-10'					MA 3252	1			Composite Items 1 & 2
	HH-589-10'					MA 3253	1			MA 3254
	HH-589-15'					MA 3255	1			
	HH-589-15'					MA 3256	1			
	HH-589-20'					MA 3257	1			Composite Items 3 & 4
	HH-589-20'					MA 3258	1			MA 3259

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Don Rybak			

REMARKS: 2 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Don Rybak

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:42PM ; 34338→ CCITT G3;# 8
MAY 04 '89 13:53 ETC/MULTI-TECH P.8/8

Report of Potential Site Contamination Assessment Scope of Work Two

Submitted to:
Hughes Aircraft Company
Safety, Health, and Environmental Affairs
P. O. Box 9399
Long Beach, California 90810-0399

Prepared by:
OH Materials Corporation
2191 Dupont Drive
Anaheim, California 92806

October 25, 1989

TABLES OF CONTENTS

1.0 INTRODUCTION

2.0 WORK PERFORMED

3.0 RESULTS

4.0 CONCLUSION/RECOMMENDATIONS

APPENDIX A Soil Boring Log Sheets

APPENDIX B Laboratory Test Results

APPENDIX C Synopsis of Discussions Held by OHM Concerning the Presence of DDT Contamination in the Northern California Area

1.0 INTRODUCTION

Hughes Aircraft Company selected O.H. Materials Corporation (OHM) a subsidiary of OHM Corporation to perform engineering services at their Rediffusion Simulation, Inc. T & CSD facility in West Covina, California. The intent of the work was to evaluate the presence of potential soil contamination in the areas as shown in Figure 1.

2.0 WORK PERFORMED

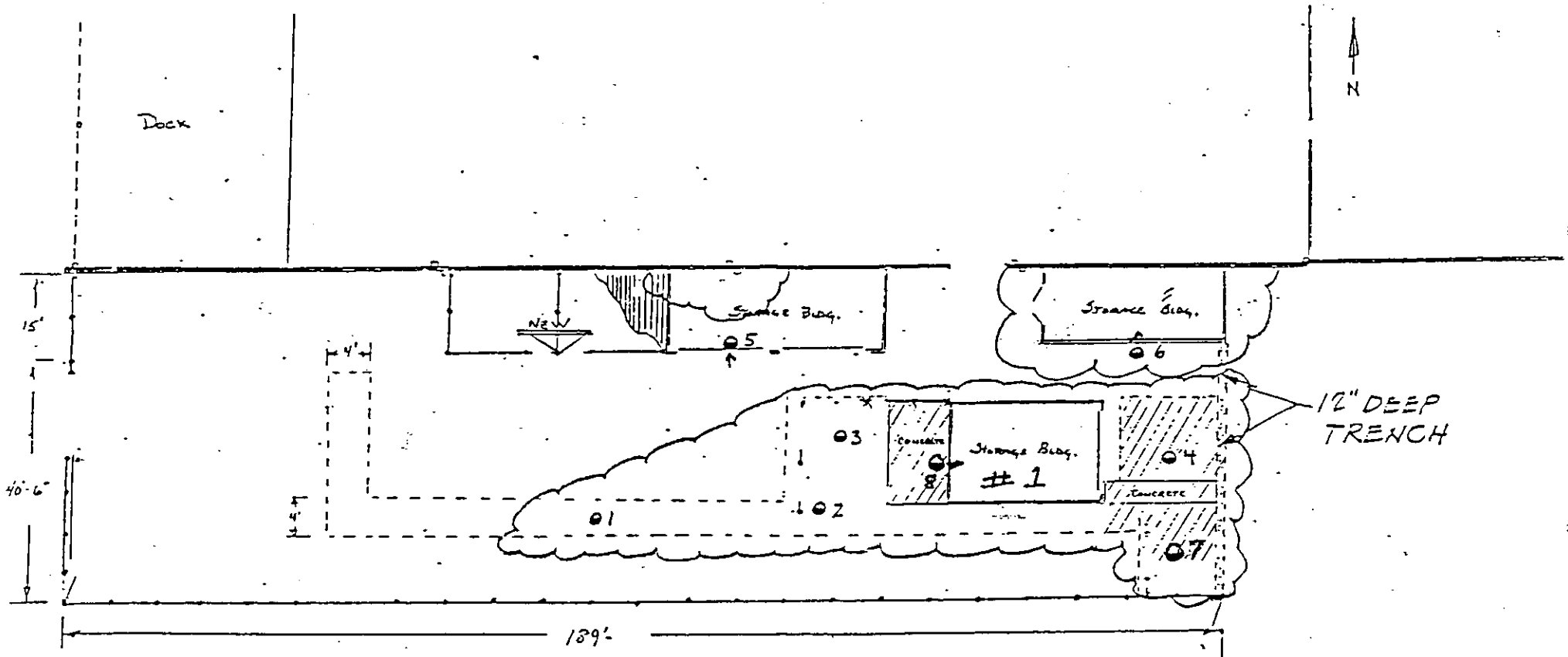
Soil Sampling

OHM recommended the areas in Figure 1 be evaluated with subsurface soil sampling from the boring locations shown. Eight borings were drilled and sampled. Soil samples were collected in brass tubes using a modified California sampler at depths of 1, 5, 10, and 15 feet in boreholes 1, 2, 3, 4, and 7. Boreholes 5, 6, and 8 were slant drilled at an estimated 25 degree angle to access the soil underlying the structures in those areas. Soil was sampled at depths of 5, 10, 15, and 20 feet in those boreholes.

Samples were immediately covered at both ends with aluminum foil, plastic caps, and electrical tape; and then labeled, placed in coolers, and chilled to four degrees centigrade for delivery to a California state certified laboratory. Before each sampling, the sampler was decontaminated with a tap water rinse and non-phosphate detergent wash followed by tap water and then a deionized water rinse.

Organic vapor headspace readings were taken with a photoionization detector at each sample interval.

ATTACHMENT-1



=AREAS TO BE ASSESSED

o - Boring Locations

REDIFFUSION SIMULATION, INC.
T & CSD
1200 E. SAN BERNARDINO RD.
WEST COVINA, CA. 91790

FIGURE 1

Each boring was backfilled with a bentonite bottom seal, followed by native soil up to a depth of 1 1/2 feet below grade. Then another bentonite seal was placed followed by concrete.

Laboratory Analysis

Soil samples were transported to a state certified laboratory for analysis. Analyses run were for total priority pollutants via EPA methods 8240, 8270, 8080, CAC metals and pH. - not all

OHM composited soil within boreholes 1, 2, 3, 4, and 7 at the 1-5 and 10-15 foot depth intervals and at the 5-10 and 15-20 foot depths in boreholes 5, 6, and 8. An exception to this is boring OH2 which had samples lost at the one foot depth; and therefore, was tested discretely at the five foot depth.

3.0 RESULTS

Soil Sampling

Soil sampled consisted of silty sands, fine grained, generally damp. Organic vapor headspace readings were taken on soil samples collected. Levels ranged from field background (2 to 5 ppm) to 30 ppm. There is not a correlation between headspace levels and laboratory data. Organic contaminant odors were not detected in any of the soil samples. The organic vapors detected may be naturally occurring or a result of contaminant gases which diffused from other soil zones. The presence of soil gas detected with field instrumentation does not necessarily result in the detection of organic constituents in the soil as tested by laboratory instruments. This is because laboratory procedures are designed to test for solid or liquid form contaminants present in the soil pore,

not soil gas (e.g. methane). Logs of borings are found in Appendix A.

Laboratory Analysis

Pesticide constituents were identified in soil borings numbered 3, 4, 7, and 8. The following table lists the pesticides found, location, and depth.

Table 1

Soil Boring	Composite Depth (ft)	Constituent Concentration (ppb) 4,4 DDE	4,4 DDT	Endosulfan Sulfate	Endosulfate
OH3	1 & 5	81	28	ND	ND
OH4	1 & 5	400	200	42	ND
OH7	1 & 5	100	47	16	ND
OH8	15 & 20	ND	ND	ND	23

ND = Non-Detectable

No organic constituents were detected other than the pesticides identified above. Table 2 identifies the highest detected levels of inorganic constituents identified, as well as the list of Inorganic Persistent and Bioaccumlative toxic substances and their Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) values, Title 22, Article 11, Criteria for identification of hazardous and extremely hazardous wastes. Background samples were not collected.

Laboratory data sheets are in Appendix B.

4.0 CONCLUSIONS/RECOMMENDATIONS

Shallow soil (surface to 20 feet) in the areas shown in Figure 1 was sampled and analyzed for the presence of organic and inorganic contamination. Laboratory data indicate that

Table 2

Soil Boring Assessment Metals Laboratory Summary

Constituent	Highest Detected Levels	Boring #/ Depth Sampled	STLC	TTLC
Antimony	N/D	-------	15	500
Arsenic	26	OH1/1 & 5	5.0	500
Barium	170	OH8/15 &20	100	10,000
Beryllium	N/D	-------	0.75	75
Cadmium	N/D	-------	1.0	100
Chromium	30	OH4/15 & 20	560	2,500
Cobalt	20	OH8/15 & 20	80	8,000
Copper	40	OH8/15 & 20	25	2,500
Lead	N/D	-------	5	1,000
Mercury	1.1	OH1/1 & 5	0.2	20
Molybdenum	10	OH 2,5,8	350	3,500
Nickel	20	OH1,2,3,4, 5,6,7,8	20	2,000
Selenium	N/D	--------	1.0	100
Silver	N/D	--------	5	500
Thallium	N/D	--------	7.0	700
Vanadium	60	OH8/15& 20	24	2,400
Zinc	80	OH1/1 & 5	250	5,000

All concentrations are shown in mg/kg.

STLC - Soluble Threshold Limit Concentration

TTLC - Total Threshold Limit Concentration

N/D - Non-detected

pesticide constituents are present in the areas below and around the storage building which sits alone away from the main buildings as shown as Building #1 on Figure 1. Based on the constituents present, their concentration and the likelihood that historically the area was agricultural oriented, the contamination found is believed to be a result of farming activities conducted prior to construction of the present facility.

The Total Threshold Limit Concentration Value for cumulative concentrations of DDT, DDE, and DDD is 1.0 ppm, as listed for Organic Persistent and Bioaccumulative Toxic Substances, Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes. The soil sample concentrations of 4,4DDE and 4,4DDT do not exceed this limit. Hazardous concentration limits have not been established for Endosulfan Sulfate and Endosulfate.

OHM has dealt with regulatory agencies regarding the presence of pesticides in soil on other job sites. Specifically, the issue of soil contaminated with DDT, DDD, and DDE compounds has been discussed regarding a confidential site in the northern California area. A synopsis of our interaction can be found in Appendix C. This information points out the limited regulatory stance on the presence of pesticides in the soil. Based on OHM's interaction with regulatory agencies on other sites, we believe the presence of pesticides are expected to be reported. The agency with primary interest is the Los Angeles Regional Water Quality Control Board (RWQCB) due to the potential for impact to ground water.

The levels of inorganic constituents identified do not exceed regulatory limits. Worst case total levels of arsenic, barium, copper, mercury, nickel, and vanadium fall between the STLC and TTLC. If the total concentration of a constituent

falls between the STLC and TTLC and is ten times greater than the STLC, a waste extraction test is required as unwritten policy by regulatory agencies to determine if the level exceeds the STLC. None of the levels found were greater than six times the STLC.

OHM recommends the organic and inorganic constituent findings be reported to the state Department of Health Services and RWQCB to determine the need for further assessment or remediation.

Appendix A
SOIL BORING LOG SHEETS

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH1

PROJECT: Hughes W. Covina, Scope 2	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration, Inc.	DRILLING EQUIPMENT: B-61
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 5/2/89	DATE FINISH/TIME: 5/2/89
SURFACE ELEVATION: Ground	TOTAL DEPTH:
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	7		Brown Damp silty fine sand	Organic vapor headspace readings (ppm) 0	
5	2	3		No change	0	
0	3	6		No change	0	
5	4	8		No change	0	

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH2

PROJECT: Hughes W. Covina, Scope 2	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration, Inc.	DRILLING EQUIPMENT: B-61
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 5-2-89	DATE FINISH/TIME: 5-2-89
SURFACE ELEVATION: Ground	TOTAL DEPTH:
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	9		Brown Damp Silty Fine Sand	Organic Vapor Headspace readings (ppm) 0	
5	2	4		No change	0	
10	3			No change	0	
15	4	7		No change	2	
20						

RT 1

B NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH3

PROJECT: Hughes W. Covina, Scope 2	LOCATION: 1200 W. San Bernardino Rd., W. Covina
ILLING CONTRACTOR: atum Exploration, Inc.	DRILLING EQUIPMENT: B-61
HYDROGEOLOGIST: K. Gibson	DRILLER
TE START/TIME: -2-89	DATE FINISH/TIME: 5-2-89
SURFACE ELEVATION: Ground	TOTAL DEPTH
WELL CASING	SCREEN TYPE
LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	12		Brown Damp Silty Fine Sand	Organic Vapor Head-space Readings (ppm) 0	
5	2	5		No Change	0	
10	3	8		No change	3	
15	4	9		No change	2	
20						

OHM

PART 1

B NO. 7087

PAGE 1 OF 1

BORE HOLE NO. OH 4

PROJECT: Hughes W. Covina, Scope 2

LOCATION: 1200 W. San Bernardino Rd., W. Covina

DRILLING CONTRACTOR: atum Exploration, Inc.

DRILLING EQUIPMENT: B-61

HYDROGEOLOGIST: K. Gibson

DRILLER:

DATE START/TIME	DATE FINISH/TIME	SURFACE ELEVATION	TOTAL DEPTH
-2-89	5-2-89	Ground	
WELL CASING	**SCREEN TYPE**	**LENGTH**	**SLOT**

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	16		Brown damp silty fine sand	Organic Vapor Head-space readings (ppm) 0	
5	2	4		No change	0	
10	3	8		No change	0	
15	4	7		No change	0	
20						

PART 1

B NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH 5

PROJECT: Hughes W. Covina, Scope 2

LOCATION: 1200 W. San Bernardino Rd., W. Covina

DRILLING CONTRACTOR: atum Exploration, Inc.

DRILLING EQUIPMENT: B-61

HYDROGEOLOGIST: K. Gibson

DRILLER:

TE START/TIME -2-89	DATE FINISH/TIME 5-2-89	SURFACE ELEVATION Ground	TOTAL DEPTH
ELL CASING	SCREEN TYPE	LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

EMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV -ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1					Organic Vapor Head-space readings (ppm)	
5	1			Brown damp silty fine sand	2	
10	2			No change	4	
15	3			No Change	30	
20	4			No Change	23	
					Angle drill at 20 degrees	

PART 1

OHM

JOB NO. 7087

BORE HOLE NO. OH6

PROJECT: Hughes W. Covina, Scope 2

LOCATION: 1200 W. San Bernardino Rd., W. Covina

DRILLING CONTRACTOR: Datum Exploration, Inc.

DRILLING EQUIPMENT: B-61

HYDROGEOLOGIST: K. Gibson

DRILLER:

DATE START/TIME: 5-2-89

DATE FINISH/TIME: 5-2-89

SURFACE ELEVATION: Ground

TOTAL DEPTH:

WELL CASING:

SCREEN TYPE:

LENGTH:

SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV -ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1					Organic Vapor Head-space readings (ppm)	
5	1			Brown Damp silty fine sand	20	
10	2			No change	23	
15	3			No change	24	
					Angle drill at 20 degrees	
20	4			No change	19	

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH 7

PROJECT: Hughes W. Covina, Scope 2	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration, Inc.	DRILLING EQUIPMENT: B-61
HYDROGEOLOGIST: K. Gibson	DRILLER
DATE START/TIME: 5-2-89	DATE FINISH/TIME: 5-2-89
SURFACE ELEVATION: Ground	TOTAL DEPTH
WELL CASING	SCREEN TYPE
LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	5		Brown Damp Silty FIne Sand	Organic Vapor Head-space readings (ppm) 0	
5	2	3		No change	25	
10	3	7		No Change	10	
15	4	6		No change	17	
20					ANGLE DRILL AT 20 DEGREES	

PART 1

OHM

PAGE 1 OF 1

JB NO. 7087

BORE HOLE NO. OH8

PROJECT Hughes W. Covina, Scope 2

LOCATION 1200 W. San Bernardino Rd., W. Covina

ILLING CONTRACTOR
atum Exploration, Inc.

DRILLING EQUIPMENT
B-61

DRILLER

HYDROGEOLOGIST
K. Gibson

DATE START/TIME	DATE FINISH/TIME	SURFACE ELEVATION	TOTAL DEPTH
-2-89	5-2-89	Ground	
ELL CASING	SCREEN TYPE	LENGTH	SLOT

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

EMARKS

Depth	SAMPLE NO.	BLOW COUNT PER 6"	RECOV -ERY	BORE HOLE LOG LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1					Organic vapor head-space readings (ppm)	
5	1			Brown damp silty fine sand	7	
10	2			No change	0	
15	3			No change	2	
20	4			No change	5	
					Angle Drill at 20 degrees	

Appendix B
LABORATORY TEST RESULTS

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 18, 1989

CLIENT: O.H. Materials Corporation
15355 Manila
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS
QC BATCH NUMBER: 89-489
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA3187	OH1-589-1'&5'	5-02-89	5-04-89
MA3192	OH1-589-10'&15'	5-02-89	5-04-89
MA3193	OH2-589-5'	5-02-89	5-04-89
MA3199	OH2-589-10'&15'	5-02-89	5-04-89
MA3204	OH3-589-1'&5'	5-02-89	5-04-89
MA3209	OH3-589-10'&15'	5-02-89	5-04-89
MA3214	OH4-589-1'&5'	5-02-89	5-04-89
MA3219	OH4-589-10'&15'	5-02-89	5-04-89
MA3224	OH5-589-5'&10'	5-02-89	5-04-89
MA3229	OH5-589-15'&20'	5-02-89	5-04-89
MA3234	OH6-589-5'&10'	5-02-89	5-04-89
MA3239	OH6-589-15'&20'	5-02-89	5-04-89
MA3244	OH7-589-1'&5'	5-02-89	5-04-89
MA3249	OH7-589-10'&15'	5-02-89	5-04-89
MA3254	OH8-589-5'&10'	5-02-89	5-04-89
MA3259	OH8-589-15'&20'	5-02-89	5-04-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

5/19/89
Date

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC Batch Number: 89-489
Date extracted: 5-10-89
Date analyzed: 5-12-89

Sample Number:	MA3187	MA3192	MA3193	MA3199	MA3204	
Client ID:	OH1-589-1'&5'	OH1-589-10'&15'	OH2-589-5'	OH2-589-10'&15'	OH3-589-1'&5'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	ND	0.1

SURROGATE RECOVERIES:

	Result (%)	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	96	98	98	98	98
Toluene-D8	104	104	106	104	104
Bromofluorobenzene	100	98	100	102	98

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7067

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC Batch Number: 89-489
Date extracted: 5-10-89
Date analyzed: 5-12-89

Sample Number:	MA3209	MA3214	MA3219	MA3224	MA3229	
Client ID:	OH3-589-10'&15'	OH4-589-1'&5'	OH4-589-10'&15'	OH5-589-5'&10'	OH5-589-15'&20'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit(mg/kg)
Acetone	ND	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	ND	0.1

SURROGATE RECOVERIES:

	Result (%)	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	98	98	98	98	94
Toluene-D8	132	106	104	104	104
Bromofluorobenzene	98	96	98	98	98

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC BATCH NUMBER: 89-489
Date extracted: 5-10-89
Date analyzed: 5-12-89

Sample Number:	MA3234	MA3239	MA3244	MA3249	
Client ID:	OH6-589-5'&10'	OH6-589-15'&20'	OH7-589-1'&5'	OH7-589-10'&15'	Detection
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	ND	ND	2.0
Benzene	ND	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	ND	0.1
Bromoform	ND	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	ND	0.2
Chloroform	ND	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	ND	0.2
Styrene	ND	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	ND	0.1
Toluene	ND	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	0.1

SURROGATE RECOVERIES:

	Result (%)	Result (%)	Result (%)	Result (%)
1,2-Dichloroethane-D4	98	96	100	98
Toluene-D8	102	104	106	106
Bromofluorobenzene	100	98	100	98

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8240: GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

QC Batch Number: 89-489
Date extracted: 5-10-89
Date analyzed: 5-15-89

SAMPLE NUMBER:	MA3254	MA3259	
CLIENT ID:	OHB-589-5'&10'	OHB-589-15'&20'	Detection
	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Acetone	ND	ND	2.0
Benzene	ND	ND	0.1
Bromodichloromethane	ND	ND	0.1
Bromoform	ND	ND	0.1
Bromomethane	ND	ND	0.2
2-Butanone	ND	ND	0.2
Carbon disulfide	ND	ND	0.1
Carbon tetrachloride	ND	ND	0.1
Chlorobenzene	ND	ND	0.1
Chloroethane	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	0.2
Chloroform	ND	ND	0.1
Chloromethane	ND	ND	0.2
Dibromochloromethane	ND	ND	0.1
1,1-Dichloroethane	ND	ND	0.1
1,2-Dichloroethane	ND	ND	0.1
1,1-Dichloroethene	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	0.1
1,2-Dichloropropane	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	0.1
Ethyl benzene	ND	ND	0.1
2-Hexanone	ND	ND	0.2
Methylene chloride	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	0.2
Styrene	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	0.1
Tetrachloroethene	ND	ND	0.1
Toluene	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	0.1
Trichloroethene	ND	ND	0.1
Trichlorofluoromethane	ND	ND	0.1
Vinyl acetate	ND	ND	0.2
Vinyl chloride	ND	ND	0.2
Total Xylenes	ND	ND	0.1

SURROGATE RECOVERIES:

	Result (%)	Result (%)
1,2-Dichloroethane-D4	98	102
Toluene-D8	100	102
Bromofluorobenzene	100	98

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8240: PURGEABLE ORGANICS

QC BATCH NUMBER: 89-489

METHOD BLANK SUMMARY

Date:	5-11-89 Result (mg/kg)	5-12-89 Result (mg/kg)	5-15-89 Result (mg/kg)	Detection Limit (mg/kg)
Acetone	ND	ND	ND	2.0
Benzene	ND	ND	ND	0.1
Bromodichloromethane	ND	ND	ND	0.1
Bromoform	ND	ND	ND	0.1
Bromomethane	ND	ND	ND	0.2
2-Butanone	ND	ND	ND	0.2
Carbon disulfide	ND	ND	ND	0.1
Carbon tetrachloride	ND	ND	ND	0.1
Chlorobenzene	ND	ND	ND	0.1
Chloroethane	ND	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	ND	0.2
Chloroform	ND	ND	ND	0.1
Chloromethane	ND	ND	ND	0.2
Dibromochloromethane	ND	ND	ND	0.1
1,1-Dichloroethane	ND	ND	ND	0.1
1,2-Dichloroethane	ND	ND	ND	0.1
1,1-Dichloroethene	ND	ND	ND	0.1
trans-1,2-Dichloroethene	ND	ND	ND	0.1
1,2-Dichloropropane	ND	ND	ND	0.1
cis-1,3-Dichloropropene	ND	ND	ND	0.1
trans-1,3-Dichloropropene	ND	ND	ND	0.1
Ethyl benzene	ND	ND	ND	0.1
2-Hexanone	ND	ND	ND	0.2
Methylene chloride	ND	ND	ND	0.1
4-Methyl-2-Pentanone	ND	ND	ND	0.2
Styrene	ND	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.1
Tetrachloroethene	ND	ND	ND	0.1
Toluene	ND	ND	ND	0.1
1,1,1-Trichloroethane	ND	ND	ND	0.1
1,1,2-Trichloroethane	ND	ND	ND	0.1
Trichloroethene	ND	ND	ND	0.1
Trichlorofluoromethane	ND	ND	ND	0.1
Vinyl acetate	ND	ND	ND	0.2
Vinyl chloride	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	0.1
*Acrolein	ND	ND	ND	25
*Acrylonitrile	ND	ND	ND	12

ND = None Detected
*The analysis for Acrolein and Acrylonitrile are qualitative screens and not intended for quantitative purposes.
(QC 8240 CONTINUED)

PROJECT: HUGHES, WEST COVINA, #7087

QC BATCH NUMBER 89-489, EPA METHOD 8240 PURGEABLE ORGANICS (CON'T)

SPIKING SUMMARY

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,1,-Dichloroethene	95	95	0	92	88	4
Trichloroethene	110	115	4	98	94	4
Chlorobenzene	110	110	0	100	98	2
Toluene	105	110	5	102	100	2
Benzene	105	110	5	102	98	4

This batch passes method quality control acceptance criteria.

cah

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 18, 1989

CLIENT: O.H. Materials Corporation
15355 Manila
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S
QC BATCH NUMBER: 89-491
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA3187	OH1-589-1'&5'	5-02-89	5-04-89
MA3192	OH1-589-10'&15'	5-02-89	5-04-89
MA3193	OH2-589-5'	5-02-89	5-04-89
MA3199	OH2-589-10'&15'	5-02-89	5-04-89
MA3204	OH3-589-1'&5'	5-02-89	5-04-89
MA3209	OH3-589-10'&15'	5-02-89	5-04-89
MA3214	OH4-589-1'&5'	5-02-89	5-04-89
MA3219	OH4-589-10'&15'	5-02-89	5-04-89
MA3224	OH5-589-5'&10'	5-02-89	5-04-89
MA3229	OH5-589-15'&20'	5-02-89	5-04-89
MA3234	OH6-589-5'&10'	5-02-89	5-04-89
MA3239	OH6-589-15'&20'	5-02-89	5-04-89
MA3244	OH7-589-1'&5'	5-02-89	5-04-89
MA3249	OH7-589-10'&15'	5-02-89	5-04-89
MA3254	OH8-589-5'&10'	5-02-89	5-04-89
MA3259	OH8-589-15'&20'	5-02-89	5-04-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: Cheryl Smith — 5/19/89

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

Date

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

SAMPLE NUMBER: MA3187
QC BATCH NUMBER: 89-491
CLIENT ID: OH1-589-1'&5'
Date extracted: 5-10-89
Date analyzed: 5-12-89

Analyte	Result (ug/kg)	Detection Limit (ug/kg)*
Aldrin	ND	20
a-BHC	ND	20
b-BHC	ND	20
d-BHC	ND	20
g-BHC	ND	20
Chlordane	ND	500
4,4-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
Dieldrin	ND	20
Endosulfan I	ND	20
Endosulfan II	ND	20
Endosulfan Sulfate	ND	20
Endrin	ND	20
Endrin Aldehyde	ND	20
Heptachlor	ND	20
Heptachlor Epoxide	ND	20
Toxaphene	ND	500
PCB-1016	ND	40
PCB-1221	ND	40
PCB-1232	ND	40
PCB-1242	ND	40
PCB-1248	ND	40
PCB-1254	ND	40
PCB-1260	ND	40

SURROGATE RECOVERY:

Dibutylchlorendate	100%

ND = None Detected

*These detection limits are 2 times higher than usual due to suspected contamination revealed in screening.

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC Batch Number: 89-491
Date extracted: 5-10-89
Date analyzed: 5-12-89, 5-15-89, 5-16-89

SAMPLE NO.:	MA3204	MA3214	MA3244	
CLIENT ID:	OH3-589-1'&5'	OH4-589-1'&5'	OH7-589-1'&5'	Detection
	Result	Result	Result	Limit
	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	ND	ND	ND	10
a-BHC	ND	ND	ND	10
b-BHC	ND	ND	ND	10
d-BHC	ND	ND	ND	10
g-BHC	ND	ND	ND	10
Chlordane	ND	ND	ND	250
4,4-DDD	ND	ND	ND	10
4,4'-DDE	81	400	100	10
4,4'-DDT	28	200	47	10
Dieldrin	ND	ND	ND	10
Endosulfan I	ND	ND	ND	10
Endosulfan II	ND	ND	ND	10
Endosulfan Sulfate	ND	42	16	10
Endrin	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	10
Heptachlor	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	10
Toxaphene	ND	ND	ND	250
PCB-1016	ND	ND	ND	20
PCB-1221	ND	ND	ND	20
PCB-1232	ND	ND	ND	20
PCB-1242	ND	ND	ND	20
PCB-1248	ND	ND	ND	20
PCB-1254	ND	ND	ND	20
PCB-1260	ND	ND	ND	20
SURROGATE RECOVERY:				
Dibutylchlorendate	100%	110%	100%	

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC Batch Number: 89-491
Date extracted: 5-10-89
Date analyzed: 5-12-89, 5-15-89

SAMPLE NO.:	MA3193	MA3199	MA3234	MA3239	MA3259	
CLIENT ID:	OH2-589-5'	OH2-589-10'&15'	OH6-589-5'&10'	OH6-589-15'&20'	OH8-589-15'&20'	Detection
	Result	Result	Result	Result	Result	Limit
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	ND	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	ND	250
4,4-DDD	ND	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	23	10
Endrin	ND	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	ND	20
SURROGATE RECOVERIES:						
Dibutylchlorendate	130%	96%	110%	160%	120%	

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC Batch Number: 89-491
Date extracted: 5-10-89
Date analyzed: 5-12-89

SAMPLE NO.:	MA3192	MA3209	MA3219	MA3224	MA3229	MA3249	MA3254	
CLIENT ID:	OH2-589-10'&15'	OH3-589-10'&15'	OH4-589-10'&15'	OH5-589-5'&10'	OH5-589-15'&20'	OH7-589-10'&15'	OH8-589-5'&10'	Detection
	Result	Result	Result	Result	Result	Result	Result	Limit
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	ND	ND	ND	ND	ND	ND	ND	10
a-BHC	ND	ND	ND	ND	ND	ND	ND	10
b-BHC	ND	ND	ND	ND	ND	ND	ND	10
d-BHC	ND	ND	ND	ND	ND	ND	ND	10
g-BHC	ND	ND	ND	ND	ND	ND	ND	10
Chlordane	ND	ND	ND	ND	ND	ND	ND	250
4,4-DDD	ND	ND	ND	ND	ND	ND	ND	10
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	10
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	10
Dieldrin	ND	ND	ND	ND	ND	ND	ND	10
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	10
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	10
Endosulfan Sulfate	ND	ND	ND	ND	ND	ND	ND	10
Endrin	ND	ND	ND	ND	ND	ND	ND	10
Endrin Aldehyde	ND	ND	ND	ND	ND	ND	ND	10
Heptachlor	ND	ND	ND	ND	ND	ND	ND	10
Heptachlor Epoxide	ND	ND	ND	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	ND	ND	ND	250
PCB-1016	ND	ND	ND	ND	ND	ND	ND	20
PCB-1221	ND	ND	ND	ND	ND	ND	ND	20
PCB-1232	ND	ND	ND	ND	ND	ND	ND	20
PCB-1242	ND	ND	ND	ND	ND	ND	ND	20
PCB-1248	ND	ND	ND	ND	ND	ND	ND	20
PCB-1254	ND	ND	ND	ND	ND	ND	ND	20
PCB-1260	ND	ND	ND	ND	ND	ND	ND	20
SURROGATE RECOVERIES:								
Dibutylchlorendate	100%	100%	140%	71%	110%	100%	110%	

ND = None Detected

PROJECT: HUGHES, WEST COVINA, #7087

QUALITY ASSURANCE REPORT

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

QC BATCH NUMBER: 89-491
DATE ANALYZED: 5-12-89, 5-15-89

				-MATRIX SPIKES-		
Analyte	Method Blank (ug/kg)	QC CHECK Sample Recovery (%)	Sample Result (ug/kg)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
Aldrin	ND	98	ND	88	86	2.3
a-BHC	ND	96	ND	84	82	2.4
b-BHC	ND	154	ND	120	112	6.9
d-BHC	ND	46	ND	40	34	16
g-BHC	ND	100	ND	90	86	4.5
Chlordane	ND	*	ND	*	*	*
4,4'-DDD	ND	98	ND	100	96	4.1
4,4'-DDE	ND	98	ND	100	92	8.3
4,4'-DDT	ND	106	ND	106	100	5.8
Dieldrin	ND	96	ND	82	80	2.5
Endosulfan I	ND	98	ND	92	88	4.4
Endosulfan II	ND	94	ND	96	90	6.4
Endosulfan Sulfate	ND	88	ND	88	84	4.6
Endrin	ND	98	ND	100	96	4.1
Endrin Aldehyde	ND	112	ND	118	108	8.8
Heptachlor	ND	110	ND	102	92	10
Heptachlor Epoxide	ND	98	ND	92	88	4.4
Methoxychlor	ND	*	ND	*	*	*
Toxaphene	ND	*	ND	*	*	*
PCB'S	ND	*	ND	*	*	*

*These compounds were not part of the QC check sample or the matrix spiking solution.

This batch passes method quality control acceptance criteria.

ND = None Detected

cah

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570

ETC - MULTI-TECH

May 30, 1989

CLIENT: O.H. Materials Corporation
15355 Manila
Fontana, CA 92335

ATTN: Kevin Gibson

ANALYSIS: CAC TOTAL METALS, pH
PROJECT: HUGHES, WEST COVINA, #7087
SAMPLE TYPE: WASTE
COLLECTED BY: CLIENT

SAMPLE NO.	SAMPLE POINT	SAMPLE DATE	DATE IN LAB
MA3187	OH1-589-1'&5'	5-02-89	5-04-89
MA3192	OH1-589-10'&15'	5-02-89	5-04-89
MA3193	OH2-589-5'	5-02-89	5-04-89
MA3199	OH2-589-10'&15'	5-02-89	5-04-89
MA3204	OH3-589-1'&5'	5-02-89	5-04-89
MA3209	OH3-589-10'&15'	5-02-89	5-04-89
MA3214	OH4-589-1'&5'	5-02-89	5-04-89
MA3219	OH4-589-10'&15'	5-02-89	5-04-89
MA3224	OH5-589-5'&10'	5-02-89	5-04-89
MA3229	OH5-589-15'&20'	5-02-89	5-04-89
MA3234	OH6-589-5'&10'	5-02-89	5-04-89
MA3239	OH6-589-15'&20'	5-02-89	5-04-89
MA3244	OH7-589-1'&5'	5-02-89	5-04-89
MA3249	OH7-589-10'&15'	5-02-89	5-04-89
MA3254	OH8-589-5'&10'	5-02-89	5-04-89
MA3259	OH8-589-15'&20'	5-02-89	5-04-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by:

Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

5/31/89
Date

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3187
CLIENT ID: OH1-589-1'&5'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	26	0.5
Total Barium	3050	5-11-89	6010	5-15-89	110	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.2	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3192
CLIENT ID: OH1-589-10'&15'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.1	0.5
Total Barium	3050	5-11-89	6010	5-15-89	80	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	20	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.1	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	10	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	30	10
Total Zinc	3050	5-11-89	6010	5-15-89	40	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3193
CLIENT ID: OH2-589-5'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.4	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	40	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.2	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	20	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7067

CAC TOTAL METALS

SAMPLE NUMBER: MA3199
CLIENT ID: OH2-589-10'&15'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.8	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	30	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.1	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	20	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3204
CLIENT ID: OH3-589-1'&5'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.7	0.5
Total Barium	3050	5-11-89	6010	5-15-89	110	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3209
CLIENT ID: OH3-589-10'&15'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.4	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3214
CLIENT ID: OH4-589-1'&5'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.3	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.1	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3219
CLIENT ID: OHM4-589-10'&15'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.6	0.5
Total Barium	3050	5-11-89	6010	5-15-89	130	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	30	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	60	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3224
CLIENT ID: OH5-589-5'&10'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	1.9	0.5
Total Barium	3050	5-11-89	6010	5-15-89	110	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	40	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3229
CLIENT ID: OH5-589-15'&20'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.8	0.5
Total Barium	3050	5-11-89	6010	5-15-89	150	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	0.1	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	20	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	60	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3234
CLIENT ID: OH6-589-5'&10'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.2	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3239
CLIENT ID: OH6-589-15'&20'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.4	0.5
Total Barium	3050	5-11-89	6010	5-15-89	130	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	20	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3244
CLIENT ID: OH7-589-1'&5'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	4.7	0.5
Total Barium	3050	5-11-89	6010	5-15-89	120	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3249
CLIENT ID: OHM-589-10'&15'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.0	0.5
Total Barium	3050	5-11-89	6010	5-15-89	100	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	40	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3254
CLIENT ID: OH8-589-5'&10'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.3	0.5
Total Barium	3050	5-11-89	6010	5-15-89	110	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	20	10
Total Cobalt	3050	5-11-89	6010	5-15-89	10	10
Total Copper	3050	5-11-89	6010	5-15-89	30	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	10	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	50	10
Total Zinc	3050	5-11-89	6010	5-15-89	50	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

CAC TOTAL METALS

SAMPLE NUMBER: MA3259
CLIENT ID: OHB-589-15'&20'

Analyte	EPA Prep Method	Prep Date	EPA Test Method	Analysis Date	RESULT (mg/kg)	Detection Limit (mg/kg)
Total Antimony	3050	5-11-89	6010	5-15-89	ND	100
Total Arsenic	7061	5-11-89	7061	5-23-89	2.6	0.5
Total Barium	3050	5-11-89	6010	5-15-89	170	10
Total Beryllium	3050	5-11-89	6010	5-15-89	ND	1
Total Cadmium	3050	5-11-89	6010	5-15-89	ND	10
Total Chromium	3050	5-11-89	6010	5-15-89	30	10
Total Cobalt	3050	5-11-89	6010	5-15-89	20	10
Total Copper	3050	5-11-89	6010	5-15-89	40	10
Total Lead	3050	5-11-89	7420	5-13-89	ND	10
Total Mercury	7471	5-10-89	7471	5-10-89	ND	0.1
Total Molybdenum	3050	5-11-89	6010	5-15-89	20	10
Total Nickel	3050	5-11-89	6010	5-15-89	20	10
Total Selenium	7741	5-11-89	7741	5-14-89	ND	0.1
Total Silver	3050	5-11-89	7760	5-13-89	ND	5
Total Thallium	3050	5-11-89	7840	5-13-89	ND	50
Total Vanadium	3050	5-11-89	6010	5-15-89	60	10
Total Zinc	3050	5-11-89	6010	5-15-89	70	10

ND = None Detected

Sample processed on an as-received basis.

PROJECT: HUGHES, WEST COVINA, #7087

pH

Sample No.	Client ID	EPA Prep Method	Prep Date	EPA Analysis Method	Analysis Date	Result	Detection Limit
MA3187	OH1-589-1'&5'	9040	5-10-89	9040	5-10-89	7.4	NA
MA3192	OH1-589-10'&15'	9040	5-10-89	9040	5-10-89	8.2	NA
MA3193	OH2-589-5'	9040	5-10-89	9040	5-10-89	7.6	NA
MA3199	OH2-589-10'&15'	9040	5-10-89	9040	5-10-89	7.9	NA
MA3204	OH3-589-1'&5'	9040	5-10-89	9040	5-10-89	7.6	NA
MA3209	OH3-589-10'&15'	9040	5-10-89	9040	5-10-89	7.9	NA
MA3214	OH4-589-1'&5'	9040	5-10-89	9040	5-10-89	7.4	NA
MA3219	OH4-589-10'&15'	9040	5-10-89	9040	5-10-89	7.8	NA
MA3224	OH5-589-5'&10'	9040	5-10-89	9040	5-10-89	7.3	NA
MA3229	OH5-589-15'&20'	9040	5-10-89	9040	5-10-89	7.8	NA
MA3234	OH6-589-5'&10'	9040	5-10-89	9040	5-10-89	7.7	NA
MA3239	OH6-589-15'&20'	9040	5-10-89	9040	5-10-89	7.9	NA
MA3244	OH7-589-1'&5'	9040	5-10-89	9040	5-10-89	7.5	NA
MA3249	OH7-589-10'&15	9040	5-10-89	9040	5-10-89	7.8	NA
MA3254	OH8-589-5'&10'	9040	5-10-89	9040	5-10-89	7.9	NA
MA3259	OH8-589-15'&20'	9040	5-10-89	9040	5-10-89	8.3	NA

NA = Not Applicable

cah

OHM

CHAIN-OF-CUSTODY RECORD

Form 9019
Field Technical Services
Rev. 03/89

No. 69525

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina
PROJECT LOCATION:
J. NO.: 387
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/350-1243
CLIENT'S REPRESENTATIVE: SD Clifford
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
H-589-1'	5/1/89			✓	Soil MA 3184	1		Composite w/OH1-589-5' MA 3187 Composite
H-589-1'				✓	NO SAMPLE	1		No Sample Recvd @ 5559
H-589-5'				✓	MA 3185	1		Composite w/OH1-589-1'
H-589-5'				✓	MA 3186	1		
H-589-10'				✓	MA 3188	1		Composite w/OH1-589-15' MA 3192 Composite
H-589-10'				✓	MA 3189	1		
H-589-15'				✓	MA 3190	1		Composite w/OH1-589-10'
H-589-15'				✓	MA 3191	1		

ANALYSIS DESIRED: 8240 ✓ 8270 ✓ 8250 ✓ Org Metals TCLP ✓ Hold

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-3-8	Leon Byford			

REMARKS: 2 week turnaround

SAMPLER'S SIGNATURE: Leon Byford

LB 5-4-89

A Subsidiary of Environmental Treatment and Technology Corp.
The Environmental Services Company

LAB COPY

CCITT G3: #1
34338
; 5- 4-89 4:35PM ;
SENT BY: MAIL STOP INC
MAY 04 '89 13:48 ETC/MULTI-TECH
P.2/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69525

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina	PROJECT LOCATION:		
PROJ. NO.: 7097	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 714/350-1243	
CLIENT'S REPRESENTATIVE: Ed Cliffurd	PROJECT MANAGER/SUPERVISOR: Kevin Gibson		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS (GLASS TUBE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	OH1-589-1'	5/2/89			✓	Soil	1	✓ ✓ ✓ ✓ ✓ ✓	
2	OH1-589-1'				✓	NO SAMPLE	1	✓	
3	OH1-589-5'				✓		1	✓ ✓ ✓ ✓ ✓	
4	OH1-589-5'				✓		1	✓	
5	OH1-589-10'				✓		1	✓ ✓ ✓ ✓ ✓	
6	OH1-589-10'				✓		1	✓	
7	OH1-589-15'				✓		1	✓ ✓ ✓ ✓	
8	OH1-589-15'				✓		1	✓	
9									
10									

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA 8240, EPA 8270, EPA 3080, CAM METALS TTLC, pH, Halo

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-3-8	Leota Eyestone			
2					
3					
4					

REMARKS: 1 wk turnaround

Leota Eyestone
SAMPLER'S SIGNATURE

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes Id. Collins
O.H. NO.: 7087
PROJECT LOCATION:
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 717 3501243
CLIENT'S REPRESENTATIVE: ED Clifford
PROJECT MANAGER/SUPERVISOR: K. Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS
H2-589-1'	5/4/89			✓	Soil Per Kevin: Run analyses on #5 — therefore no composite	1
H2-589-1				✓	MA 3193	1
H2-589-5'				✓	MA 3194	1
H2-589-5				✓	MA 3195	1
H2-589-10'				✓	MA 3196	1
H2-589-10				✓	MA 3197	1
H2-589-15'				✓	MA 3198	1
H2-589-15				✓		1

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
Extra: 8240, 8270, 4080, Chlor Herbicides, pH, Hold

REMARKS: (5) 5-5-89 NO SAMPLE Recvd ITEMS COMPOSITE 1 & 3
(4) 5-5-89 NO SAMPLE Recvd
OK
OK
COMPOSITE ITEMS MA 3199 5&7 OK
OK
OK
OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Lori Bychek			

REMARKS
2 week turnaround

Lori Bychek
SAMPLER'S SIGNATURE

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 ; 4:36PM ; 3433#2 CCITT G3; # 2
MAY 04 '89 13:49 ETC/MULTI-TECH P.3/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Columbia	PROJECT LOCATION:		
PROJ. NO.: 7087	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 714/3501243	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: K. GIBSON		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS: BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 624 / 8240	625 / 8270	CCA	CAM METALS ZINC	pH	HOLD		REMARKS
1	OH2-589-1'	5/1/87			✓	Soil	1	✓	✓	✓	✓	✓	✓		Not used
2	OH2-589-1'				✓		1							✓	Not used
3	OH2-589-5'				✓		1	✓	✓	✓	✓	✓			
4	OH2-589-5'				✓		1							✓	
5	OH2-589-10'				✓		1	✓	✓	✓	✓	✓			
6	OH2-589-10'				✓		1							✓	
7	OH2-589-15'				✓		1	✓	✓	✓	✓	✓			
8	OH2-589-15'				✓		1							✓	
9															
10															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Bychal			
2					
3					
4					

REMARKS: 1 week turnaround

SAMPLER'S SIGNATURE: Scott Bychal

GCITT G3:# 3
34338→
; 5- 4-89 ; 4:37PM ;
SENT BY:MAIL STOP INC
MAY 04 '89 13:49 ETC/MULTI-TECH
P.3/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0819
Field Technical Services
Rev. 03/88

No. 69524

O.H. MATERIALS CORP. • P.O. BOX 561 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes Jd. Complex
P.O. NO.: 7087
PROJECT CONTACT:
PROJECT LOCATION:
PROJECT TELEPHONE NO.: 714/3501243
CLIENT'S REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: K. Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
MB-589-1'	5/4/89			✓	Soil MA 3200	1		ITEMS OK
MB-589-1'				✓	MA 3201	1		COMPOSITE 1 & 3 MA 3204 OK
MB-589-5'				✓	MA 3202	1		OK
MB-589-5'				✓	MA 3203	1		OK
MB-589-10'				✓	MA 3205	1		COMPOSITE ITEMS 5 & 7 MA 3209 OK
MB-589-10'				✓	MA 3206	1		OK
MB-589-15'				✓	MA 3207	1		OK
MB-589-15'				✓	MA 3208	1		OK

Analysis Desired: 8240 (EPA 624), 8270 (EPA 625), 8080 (PCB), CAM Metals TTLC, Hold

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Scott Bephart			

REMARKS: 2 week turnaround

SAMPLER'S SIGNATURE: Scott Bephart

5-4-89

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69523

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: HUGHES U. COMPANY
PROJECT LOCATION:
PROJ. NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/350-1243
CLIENT'S REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS: BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA 8240	EPA 8270	EPA 8080	CAM METALS	pH	Hold	REMARKS
1	OH3-589	5/6/89			✓	Soil	1	–	–	–	–	–	–	Field Sample Lost Matrix spike
2	OH3-589												✓	Field Sample Lost spike
3	OH3-589-5'					Soil	1	–	–	–	–	–		
4	OH3-589-5'						1						✓	
5	OH3-589-10'						1	–	–	–	–	–		
6	OH3-589-10'						1				✓		✓	
7	OH3-589-15'						1	–	–	–	–			
8	OH3-589-15'						1						✓	
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	3 - 8	Scott Pezzuto			
2					
3					
4					

REMARKS: 1 week turnaround

SAMPLER'S SIGNATURE: Scott Pezzuto

SENT BY:MAIL STOP INC ; 5- 4-89 4:38PM ; 3433849 CCITT G3:# 4

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

For Field Technical S Re

No. 69531

PROJECT NAME: Hughes W. Covina

PROJECT LOCATION:

PROJECT NO.: 7087

PROJECT CONTACT:

PROJECT TELEPHONE NO.: 714/350-1243

CLIENT'S REPRESENTATIVE: Ed Clifford

PROJECT MANAGER/SUPERVISOR: Kevin Gibson

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	OH4-589-1'	5/4/89			✓	Soils MA 3210	1 Brass Tube	8240 8270 8080 EPA Metals TPH Halide	Composite Items 1-3 MA 3214
2	OH4-589-1'					MA 3211	1		OK
3	OH4-589-5'					MA 3212	1		OK
4	OH4589-5'					MA 3213	1		OK
5	OH4-589-10'					MA 3215	1		OK
6	OH4-589-10'					MA 3216	1		Composite Items 5-7 MA 3219
7	OH4-589-15'					MA 3217	1		OK
8	OH4-589-15'					MA 3218	1		OK
9									OK
10									OK

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Lori Byfield			
2					
3					
4					

REMARKS: 2 wk turnaround

SAMPLER'S SIGNATURE: Lori Byfield

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

OHM

CHAIN-OF-CUSTODY RECORD

Form C.
Field Technical Services
Rev. 03/88

No. 69531

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES, W. COVINA	
PROJ. NO. 7087	PROJECT CONTACT
PROJECT TELEPHONE NO. 714/350-1243	
CLIENT'S REPRESENTATIVE ED CLIFFORD	PROJECT MANAGER/SUPERVISOR KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS (BRASS TUBE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 624/10 / 8270 / 8080 / CAM METALS ITLC / pH / HOLD	REMARKS
1	OH4-589-1'	5/2/89			✓	Soil	1	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
2	OH4-589-1'						1	✓	
3	OH4-589-5'						1	✓ ✓ ✓ ✓ ✓	
4	OH4-589-5'						1	✓	
5	OH4-589-10'						1	✓ ✓ ✓ ✓ ✓	
6	OH4-589-10'						1	✓	
7	OH4-589-15'						1	✓ ✓ ✓ ✓ ✓	
8	OH4-589-15'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Lori Bjelland			
2					
3					
4					

REMARKS: 1 wk turnaround

SAMPLER'S SIGNATURE: Lori Bjelland

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

CHAIN-OF-CUSTODY RECORD

Form 09
Field Technical Servic
Rev. 09/

No. 69526

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina
PROJECT LOCATION: 714/350-1243
PROJ. NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.:
CLIENT'S REPRESENTATIVE: Ed Clifford
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	WS-589-5'	5/4/89			✓	Soil MA 3220	Brass Tube	GRO 8240, BTEX 8020, CAM Extract Title 22 pH, Hold	
2	WS-589-5'					MA 3221			Composite Items 1 & 3 MA 3224 OK
3	WS-589-10'					MA 3222			OK
4	WS-589-10'					MA 3223			OK
5	WS-589-15'					MA 3225			OK
6	WS-589-15'					MA 3226			Composite Items 5 & 7 MA 3229 OK
7	WS-589-20'					MA 3227			OK
8	WS-589-20'					MA 3228			OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-8	Lori Bychowski			

REMARKS: 1 wk turnaround

SAMPLER'S SIGNATURE: Lori Bychowski

K.B. 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:39PM ; 3433847 CCITT G3;# 5

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69526

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	7M / 350-12413
PROJ. NO. 7087	PROJECT CONTACT
PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS / BYPASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): EPA 8240	EPA 8270	EPA 6030	CAM METALS TTLC	pH	HOLD	REMARKS
1	OHS-589-5'	5/12/88			✓	Soil	1	✓	✓	✓	✓	✓		
2	OHS-589-5'						1						✓	
3	OHS-589-10						1	✓	✓	✓	✓	✓		
4	OHS-589-10'						1						✓	
5	OHS-589-15'						1	✓	✓	✓	✓	✓		
6	OHS-589-15'						1						✓	
7	OHS-589-20'						1	✓	✓	✓	✓	✓		
8	OHS-589-20'						1						✓	
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Bogdanski			
2					
3					
4					

REMARKS: 1 wk TURNAROUND

SAMPLER'S SIGNATURE: Scott Bogdanski

OHM

CHAIN-OF-CUSTODY RECORD

Form OHM
Field Technical Services
Rev. 03/88

No. 69527

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Hughes W. Covina
PROJECT LOCATION:
PROJECT NO.: 7087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714 350-1243
LEAD REPRESENTATIVE: ED CLIFFORD
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSES DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
HG-589-5'	5/4/89			✓	Soil MA 3230	1	8240 8240 8240 CAM Metals TTLC pH Hold	Composite Items 1-3
HG-589-5'					MA 3231	1		OK
HG-589-10'					MA 3232	1		OK
HG-589-10'					MA 3233	1		OK
HG-589-15'					MA 3235	1		OK
HG-589-15'					MA 3236	1		Composite Items 5-7
HG-589-20'					MA 3237	1		OK
HG-589-20'					MA 3238	1		OK
								OK

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-9	Scott Peplinski			

REMARKS: 2 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Scott Peplinski

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

SENT BY:MAIL STOP INC ; 5- 4-89 4:40PM ; 34338+ CCITT G3;# 6 P.6/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69527

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	
PROJ. NO. 7087 / PROJECT CONTACT	PROJECT TELEPHONE NO. 714/350-1243
CLIENT'S REPRESENTATIVE ED CLIFFORD	PROJECT MANAGER/SUPERVISOR KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
							BRASS TUBE	TPH 8240 / 8270 / EPA 6010 / CAM METALS - TTLC / TPH / HOLD	
1	OH6-589-5'	5/2/89			✓	SOIL	1	✓ ✓ ✓ ✓ ✓ ✓	
2	OH6-589-5'						1	✓	
3	OH6-589-10'						1	✓ ✓ ✓ ✓ ✓ ✓	
4	OH6-589-10'						1	✓	
5	OH6-589-15'						1	✓ ✓ ✓ ✓ ✓ ✓	
6	OH6-589-15'						1	✓	
7	OH6-589-20'						1	✓ ✓ ✓ ✓ ✓	
8	OH6-589-20'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-9	Scott Pegelow			
2					
3					
4					

REMARKS

1 WEEK TURNAROUND

Scott Pegelow
SAMPLER'S SIGNATURE

CCITT G3: # 7
34336>
; 5- 4-89 4:41PM ;
SENT BY:MAIL STOP INC

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

No. 69528

PROJECT NAME: Hughes U. Corner
PROJECT LOCATION:
P.O./A.F.E.: 2087
PROJECT CONTACT:
PROJECT TELEPHONE NO.: 714/380-1243
CLIENT'S REPRESENTATIVE: Ed Cliff
PROJECT MANAGER/SUPERVISOR: Kevin Gibson

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
H7-589-1'	5/4/89			✓	Soil MA 3240	1	✓	Composite Items 1-5 MA 3244 — OK
H7-589-1'					MA 3241	1	✓	
H7-589-5'					MA 3242	1	✓	
H7-589-5'					MA 3243	1	✓	
H7-589-10'					MA 3245	1	✓	OK
H7-589-10'					MA 3246	1	✓	Composite Items 6-9 MA 3249 — OK
H7-589-15'					MA 3247	1	✓	OK
H7-589-15'					MA 3248	1	✓	OK

Bruss Tube

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1-8	Lee Ryland			

REMARKS: 2 Week Turnaround

SAMPLER'S SIGNATURE: Lee Ryland

LB 5-4-89

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

LAB COPY

FEB 14 '89 12:52 FTC/MULTI-TECH
P.7/8

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69528

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: HUGHES U. COVINA	PROJECT LOCATION:		
PROJ. NO.: 7087	PROJECT CONTACT:	PROJECT TELEPHONE NO.: 714/350-1213	
CLIENT'S REPRESENTATIVE: ED CLIFFORD	PROJECT MANAGER/SUPERVISOR: KEVIN GIBSON		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) EPA 418.1 / EPA 8270 / EPA 8080 / CAM METALS TTLC / pH / Halo	REMARKS
1	047-589-1'	5/2/89			✓	SOIL	1	✓ ✓ ✓ ✓ ✓	
2	047-589-1'						1	✓	
3	047-589-5'						1	✓ ✓ ✓ ✓ ✓	
4	047-589-5'						1	✓	
5	047-589-10'						1	✓ ✓ ✓ ✓ ✓	
6	047-589-10'						1	✓	
7	047-589-15'						1	✓ ✓ ✓ ✓ ✓	
8	047-589-15'						1	✓	
9									
10									

BRASS TUBE

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Leon Bezlenk			
2					
3					
4					

REMARKS: 1 WEEK TURNAROUND

SAMPLER'S SIGNATURE: Leon Bezlenk

OHM

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 03/88

No. 69530

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
HUGHES W. COVINA	

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
7087		714/350-1243

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
ED CLIFFORD	KEVIN GIBSON

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS BRASS TUBE	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) EPA 8240 / EPA 8270 / EPA 8080 / CAM METALS TTLC / pH / Hold	REMARKS
1	OH8-589-5'	5/2/89			✓	SOIL	1	✓ ✓ ✓ ✓ ✓	
2	OH8-589-5'						1	✓	
3	OH8-589-10'						1	✓ ✓ ✓ ✓ ✓	
4	OH8-589-10						1	✓	
5	OH8-589-15'						1	✓ ✓ ✓ ✓ ✓	
6	OH8-589-15'						1	✓	
7	OH8-589-20'						1	✓ ✓ ✓ ✓ ✓	
8	OH8-589-20'						1	✓	
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-8	Scott Bjelland			
2					
3					
4					

REMARKS

1 WEEK TURNAROUND

SAMPLER'S SIGNATURE Scott Bjelland

A Subsidiary of Environmental Treatment and Technologies Corp.
The Environmental Services Company

TRANSFER 3

Appendix C
SYNOPSIS OF DISCUSSIONS HELD BY OHM CONCERNING THE PRESENCE OF DDT CONTAMINATION IN THE NORTHERN CALIFORNIA AREA

I. CALIFORNIA DEPARTMENT OF HEALTH SERVICES (DHS)

1. Brian Fourr
Site Mitigation Unit
(916) 324-3782

The only DHS cases that he knows of regarding DDT have been concerned with crop dusting operations at airports. He does not know of any DHS cases concerned with agricultural lands.

2. Mike Padilla
Policy and Procedures Unit
(916) 322-0532

The questions of DDT concentrations in agricultural lands which resulted from normal agricultural practice have not been addressed by DHS. They thought they would have to address it prior to the current development in the North Natomas area of Sacramento, but the DDT levels turned out to be of no concern.

II. REGIONAL WATER QUALITY CONTROL BOARD

1. San Francisco Bay Area Region
Bruce Wolfe
Section Leader
1803 Studies
(415) 464-0787

Region 2 has yet to develop policy or priorities for agricultural lands. If a case comes to light, it will be evaluated with respect to local ground water use, that is, the ground water basin that may be impacted. After the initial evaluation, the case will be prioritized and staff time devoted. The case would proceeds as any other ground water contamination case:

- Site assessment (monitor wells)
- Hazard definition
- Remedial action plan

III. CALIFORNIA OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT

1. Dr. Richard Jackson, Chief

Dr. Jackson pointed out that DDT can be found in soils almost anywhere in the state. DDT use was restricted not due to any human health effects, but rather due to the weakened shells of the eggs laid by birds which had been exposed to DDT.

The only possible route of exposure is ingestion for the concentration levels found at a undisclosed site, he would expect little risk to farm workers. Likewise, he would expect little risk of exposure to workers during any earth-moving operations should the land be developed.

IV. CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

1. Peter Stoddard
Senior Scientist
Environmental Monitoring and Pest Management Unit.
(415) 324-8921

Mr. Stoddard indicated that DDT uptake into plants is an unlikely problem

V. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1. Dr. Alexander Tarsey
Technical Support
Pesticides Section
(703) 557-2783

Dr. Tarsey states that there are no known health effects to humans from exposure to DDT. DDT use was restricted due to the effects on endangered species. In particular, DDT causes birds to lay eggs with thin shells. DDT was one of the factors leading to the demise of the California Condor.

DDT use is not banned, only restricted. The center for Disease Control can use DDT if protection of public health warrants. Dr. Tarsey expect to see DDT use widen for sever pest problems like, for examples, in the southern United States against army ants.

He knows of no EPA cases concerning cleanup of agricultural land from the normal application of DDT.

2. Herb Harrison
Technical Support
Pesticides Section
(703) 557-2200

Mr. Harrison indicated that DDT is not systemic in plants, that is, it does not accumulate in the plant tissue. Furthermore, it is unlikely that DDT would be found on the skin of root crops as a result of soil adhering to the plants surface. The only exception would be soybeans as DDT is soluble in soybean oil.

Report of Potential Site Contamination Assessment Scope of Work

Submitted to:
Hughes Aircraft Company
Safety, Health, and Environmental Affairs
P. O. Box 9399
Long Beach, California 90810-0399

Prepared by:
OH Materials Corporation
2191 Dupont Drive
Anaheim, California 92806

Ocotober 25, 1989

TABLES OF CONTENTS

1.0 INTRODUCTION

2.0 WORK PERFORMED

3.0 RESULTS

4.0 CONCLUSION/RECOMMENDATIONS

APPENDIX A Soil Boring Log Sheets
APPENDIX B Laboratory Test Results
APPENDIX C Chain of Custody Forms

1.0 INTRODUCTION

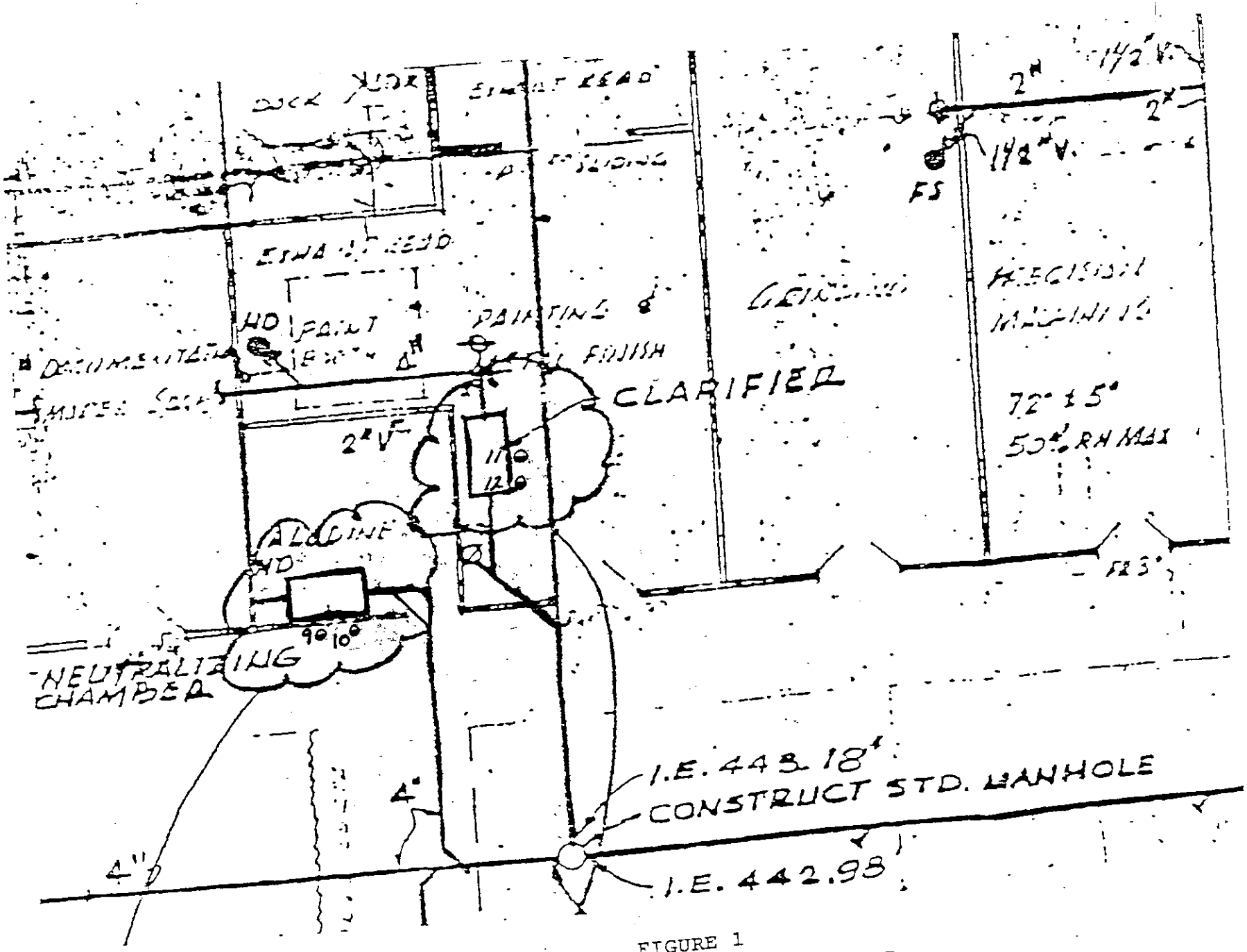
Hughes Aircraft Company selected O.H. Materials Corporation (OHM) a subsidiary of OHM Corporation to perform engineering services at their Rediffusion Simulation, Inc. T & CSD facility in West Covina, California. The intent of the work was to evaluate the presence of potential soil contamination in the areas as shown in Figures 1 and 2.

2.0 WORK PERFORMED

OHM recommended the areas in Figures 1 and 2 be evaluated with subsurface soil sampling from the boring locations shown. To provide an assessment of soil underlying the clarifiers and adjacent lines in Figure 1, borings were drilled and sampled at borehole locations 9, 10, 11, and 12 to a depth of 15 feet. Samples were collected at 6, 9, 12, and 15 foot depths. These were slant borings drilled at an estimated 15 degree angle to collect samples below the clarifier and lines with a "Simco SK2400" hollow stem auger rig. Soil samples were collected in brass tubes using a modified California sampler.

Assessment of the areas shown in Figure 2 was conducted by drilling and sampling in the 8 borehole locations shown. Borehole numbers 1, 2, 3, and 4 were drilled to depths of 15 feet, sampled at 1, 5, 10, and 15 foot intervals using a hollow stem auger rig and modified California sampler. The placement of these boreholes was based on surface staining and/or asphalt cracks in the hazardous materials storage area.

Borehole locations 5, 6, 7, and 8 were slant drilled from the outside of the current storage area also using a hollow stem auger rig and modified California sampler. Samples were collected at depths of 5, 10, 15, and 20 feet. The placement



● -Boring Locations

FIGURE 1

Rediffusion Simulation, Inc.
CSD, West Covina, CA

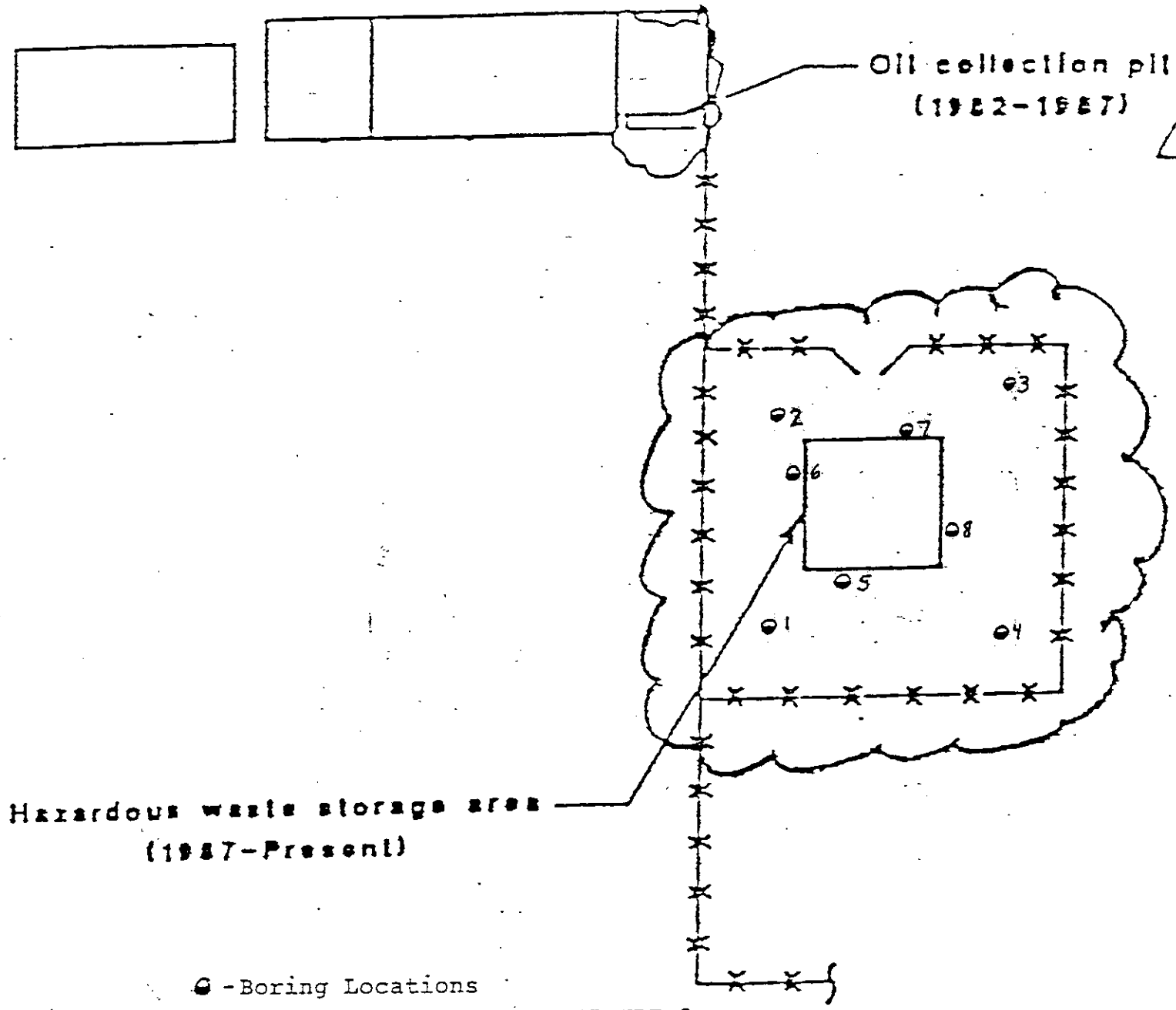


FIGURE 2

Rediffusion Simulation, Inc.
T & CSD, West Covina, CA

of the borings was such that they crossed under the storage area from opposite ends. This provided a larger cross-section of potentially contaminated soils than if vertical borings were used, allowed easier access and did not impact the no-seam concrete pour that exists in the storage area.

Samples were immediately covered at both ends with aluminum foil, plastic caps, and electrical tape; then labeled, placed in coolers, and chilled to four degrees centigrade for delivery to a California state certified laboratory. Before each sampling, the sampler was decontaminated with a tap water rinse and non-phosphate detergent wash followed by tap water and then a deionized water rinse.

Organic vapor headspace readings were taken with a photo-ionization detector at each sample interval.

Each boring was backfilled with a bentonite bottom seal then native soil up to a depth of 1 1/2 feet below grade. Then another bentonite seal was placed followed by concrete.

Laboratory Analysis

Soil samples were transported to a state certified laboratory for analysis. Laboratory analysis for Figure 1 and 2 borings were for total priority pollutants via EPA methods 8240, 8270, 8080, CAM metals and pH.

OHM composited soil within each borehole at the 6, 9, 12, and 15 foot depths for areas in Figure 1; 5 & 10 and 15 & 20 foot depths for borings 5, 6, 7, and 8, and 1 & 5 and 10 & 15 foot depths for borings 1, 2, 3, and 4 in Figure 2.

Clarifier Clean Out and Integrity Inspection

OHM directly evaluated the integrity of the two clarifiers.

This was done through the removal of sludge for off-site disposal and pressure washing the inside walls of the units, then visually inspecting the structure for deterioration. All waste and rinse water was transported with manifest to Petroleum Recycling Co. of Signal Hill, California for treatment.

3.0 RESULTS

Soil Sampling

Soil in the two areas assessed consisted of fine to coarse sands with some silt, generally damp to dry with increasing depth. Organic vapor headspace readings were taken on soil samples collected. Levels in the hazardous drum storage area ranged from field background (2 to 5 ppm) to 150 ppm. Levels measured in the clarifier area ranged from field background (2 to 5 ppm) to 18 ppm. There is not a correlation between high headspace levels and laboratory data. Organic contaminant odors were not detected in any of the soil samples. THe organic vapors detected are believed to be naturally occurring. Contaminant gases may have diffused from soil zones not assessed. The presence of soil gas detected with field instrumentation does not necessarily result in the detection of organic constituents in the soil as tested by laboratory instruments. This is because laboratory procedures are designed to test for solid or liquid form contaminants present in the soil pore, not soil gas (e.g. methane). Logs of borings are found in Appendix A.

Laboratory Analysis

Volatile organic contaminants found in soil samples collected around the hazardous drum storage area consisted of levels of methylene chloride (0.2 - 1.3 ppm), seen in six of eight

borings and chloroform (0.8 ppm) seen in one boring at the 10-15 foot depth. Semi-volatile organic analysis detected Di-n-butyl phthalate in six of the eight borings at concentrations ranging from 0.4 to 0.6 ppm. This constituent is widespread in the hazardous drum storage area and was found at composite depths of 1 & 5, 5 & 10, and 15 & 20 feet. Heptachlor pesticide was detected in boring #7 at the 15 & 20 foot composite at a level of 38 ppb. No other semi-volatile constituents or pesticides were detected. A summary of organic constituents found is shown as Table 1.

Soil samples analyzed from the clarifier area did not indicate the presence of organic contaminants. Table 2 identifies the highest detected levels of inorganic constituents identified, as well as the list of Inorganic Persistent and Bioaccumulative Toxic Substances and their Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) Values, Title 22, Article 11, CAC Criteria for Identification of Hazardous and Extremely Hazardous Waste. Because background soil samples were not analyzed, background constituent levels are not known. Laboratory data sheets are in Appendix B.

Clarifier Clean Out and Integrity Inspection

A visual inspection of both clarifiers was conducted after clean out. Walls in both clarifiers were free of structural faults which could result in liquid loss. The inlet lines on both clarifiers did exhibit some corrosion, but this was found within the clarifier walls and is not considered a leak source point.

4.0 CONCLUSIONS/RECOMMENDATIONS

Shallow soil (surface to 15 feet) underlying the hazardous

drum storage area and the clarifiers was evaluated for the presence of organic and inorganic contamination. The only semi-volatile organic detected, Di-n-butyl phthalate may be a result of contaminant migration from the asphalt. The Los Angeles Regional Water Quality Control Board (RWQCB) generally considers concentrations of Total Petroleum Hydrocarbons (TPH) at less than 100 ppm insignificant. This is based on verbal communications with the RWQCB. Regulatory limits for TPH do not exist. Di-n-butyl phthalate is part of the TPH fraction and was found at a maximum concentration of 0.6 ppm

Heptachlor pesticide was found in a single boring (B-7) at the 15 & 20 foot composite depth. This is believed to be the result of historical agricultural land use in the area. The Soluble Threshold Limit Concentration (STLC) is 0.47 ppm and the Total Threshold Limit Concentration (TTLC) for Heptachlor is 4.7 ppm, as listed for Organic Persistent and Bioaccumulative Toxic Substances, Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes. The concentration found was 0.038 ppb, this level falls below the STLC. Based on this, further assessment would not likely be required by regulatory agencies.

Methylene chloride was detected in six of eight borings at levels of 0.2 to 1.3 ppm. Methylene chloride was also seen in the laboratory sample blank analyzed for QA/QC protocol at 0.4 ppm. Field sample blanks were not collected. Due to the low levels observed and presence of methylene chloride in the sample blank, it is difficult to determine if its presence is a result of material spillage in the storage area or cross contamination in the laboratory. There are no state Department of Health Service (DHS) or RWQCB enforced regulatory limits available for methylene chloride in a soil medium. The state DHS has established a recommended drinking water action level of 0.4 ppm for methylene chloride. As a

guideline the RWQCB requires remediation of contaminants in the soil which exceed 1000 times the drinking water action level. Levels found do not meet this criteria. OHM recommends the reporting of these findings to the RWQCB to determine the need for further assessment or remediation.

Chloroform was identified at a concentration of 0.8 ppm, in the waste storage area in a single boring (B-2) at a depth of 10-15 feet. There are no state DHS or RWQCB regulatory limits available for chloroform in soil or ground water.

The levels of inorganic constituents identified (see Table 2) do not exceed regulatory limits. The highest detected levels of arsenic, barium, chromium, mercury, nickel, and vanadium fall between the STLC and TTLC. If the total concentration of a constituent falls between the STLC and TTLC and is ten times greater than the STLC, a waste extraction test is required as unwritten policy by the state DHS to determine if the level exceeds the STLC. None of the levels found were greater than six times the STLC. Based on our experience at other sites, further assessment or remediation of these inorganic constituents will not be required. However, OHM recommends the reporting of inorganic findings to the RWQCB to determine the need for further assessment.

HWSA

TABLE 1

Soil Boring Assessment, Organic Constituent Laboratory Summary

B1/1&5'	Methylene Chloride	0.2 ppm
B1/10&15'	"	N/D
B2/1&5'	"	0.2 ppm
B2/10&15'	"	0.2 ppm
B3/1&5'	"	N/D
B3/10&15'	"	N/D
B4/1&5'	"	0.3 ppm
B4/10&15'	"	0.4 ppm
B5/5&10'	"	1.3 ppm
B5/15&20'	"	0.4 ppm
B6/5&10'	"	0.7 ppm
B6/15&20'	"	0.3 ppm
B7/5&10'	"	N/D
B7/15&20'	"	N/D
B8/5&10'	"	0.3 ppm
B8/15&20'	"	0.2 ppm
B2/10&15'	Chloroform	0.8 ppm
B7/15&20'	Heptachlor	38 ppb
B1/1&5'	Di-n-butyl pthalate	0.6 ppm
B1/10&15'	"	0.5 ppm
B2/1&5'	"	0.5 ppm
B2/10&15'	"	0.5 ppm
B3/1&5'	"	0.5 ppm
B3/10&15'	"	N/D
B4/1&5'	"	0.4 ppm
B4/10&15'	"	N/D
B5/5&10'	"	N/D
B5/15&20'	"	N/D
B6/5&10'	"	0.4 ppm
B6/15&20'	"	0.4 ppm
B7/5&10'	"	N/D
B7/15&20'	"	N/D

B8/5&10'	"	0.4 ppm
B8/15&20'	"	N/D

Note:

The following regulatory limits/guidelines have been established for the constituents listed above:

State Department of Health Services Recommended drinking water action levels: for methylene chloride = 0.04 ppm, for Heptachlor = 0.01 ppb.

Title 22, Article 11, CAC Criteria for the Identification of Hazardous and Extremely Hazardous Waste:

	STLC	TTLC
Heptachlor	0.47 ppm	4.7 ppm

Chloroform and Heptachlor was only detected in the single borings B2 and B7 respectfully, as shown above.

Table 2

Soil Boring Assessment Metals Laboratory Summary

Constituent	Highest Detected Levels	Boring #/ Depth Sampled	STLC	TTLC
Antimony	N/D	-------	15	500
Arsenic	4.4	B5/15 & 20	5.0	500
Barium	160	B8/15 & 20	100	10,000
Beryllium	N/D	-------	0.75	75
Cadmium	N/D	-------	1.0	100
Chromium	30	B5/15 & 20	560	2,500
Cobalt	20	B5/15 & 20	80	8,000
Copper	40	B8/15 & 20	25	2,500
Lead	N/D	-------	5	1,000
Mercury	1.1	B4/10 & 15	0.2	20
Molybdenum	10	B8/15 & 20	350	3,500
Nickel	20	B1,2,4,5,6, 7,8/-	20	2,000
Selenium	N/D	--------	1.0	100
Silver	N/D	--------	5	500
Thallium	N/D	--------	7.0	700
Vanadium	60	B8/15 & 20	24	2,400
Zinc	80	B6/15 & 20	250	5,000

All concentrations are shown in mg/l.

STLC - Soluble Threshold Limit Concentration

TTLC - Total Threshold Limit Concentration

N/D - Non-detected

Appendix A
SOIL BORING LOG SHEETS

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH1

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: R. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	2		Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) ND	
5	2	3		Brown Damp fine sand w/some silt	ND	
10	3	3		Brown damp fine sand	ND	
15	4	3		Brown Dry Medium Sandw/aggregate	ND	
20						

OHM

PAGE 1 OF 1

PART 1

JOB NO. 7087

BORE HOLE NO. OH 2

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 3-31-89 / DATE FINISH/TIME: 3-31-89	SURFACE ELEVATION: Ground / TOTAL DEPTH: 15'
WELL CASING: / SCREEN TYPE:	LENGTH: / SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV -ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	4		Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) ND	
5	2	3		Brown Damp fine sand w/some silt	ND	
10	3	4		Brown damp fine sand	70	
15	4	5		Brown Dry Medium Sand w/aggregate	40	
20						

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH 3

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 3-31-89 / DATE FINISH/TIME: 3-31-89	SURFACE ELEVATION: Ground / TOTAL DEPTH: 15'
WELL CASING: / SCREEN TYPE:	LENGTH: / SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	4		Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) 120	
5	2	3		Brown Damp fine sand w/some silt	100	
10	3	4		Brown damp fine sand	150	
15	4	5		Brown Dry Medium Sand w/aggregate	105	
20						

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH 4

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: R. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1	2		Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) 55	
5	2	2		Brown Damp fine sand w/some silt	50	
10	3	5		Brown dry medium to coarse sand	70	
15	4	9		Brown Dry Medium to coarse sand	NA	
20						

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH5

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1			Brown Damp Fine Sand w/some silt	Organic Vapor Headspace reading (ppm) ND	
5	2			Brown Damp fine sand w/some silt	ND	
10	3			Brown dry fine sand	ND	
15	4			Brown Dry fine sand	ND	
					Angle drill at 25 degrees	
20						

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH6

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: R. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1			Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) 48	
5	2			Brown Damp fine sand w/some silt	50	
10	3			Brown damp fine to medium sand w/aggregate	54	
15	4			Brown Dry fine sand	32	
					Angle drill at 25 degrees	
20						

PART 1

OHM

PAGE 1 OF 1

JOB NO. 7087

BORE HOLE NO. OH7

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV -ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1			Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) ND	
5	2			Brown dry fine sand w/some silt	5	
10	3			Brown dry fine sand w/some silt	1	
15	4			Brown Dry Medium Sand w/aggregate	1	
20					Angle drill at 25 degrees	

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH 8

PROJECT: Hughes W. Covina	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: A&R Drilling, Inc.	DRILLING EQUIPMENT: CME-55
HYDROGEOLOGIST: R. Gibson	DRILLER:
DATE START/TIME: 3-31-89	DATE FINISH/TIME: 3-31-89
SURFACE ELEVATION: Ground	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
1	1			Brown Damp Fine Sand w/some silt	Organic Vapor Head-space reading (ppm) 5	
5	2			Brown dry fine sand w/some silt	11	
10	3			Brown dry fine sand w/some silt	1	
15	4			Brown Dry fine sand w/some silt	ND	
20						

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH9

PROJECT: Hughes W. Covina, Scope 1	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration Inc.	DRILLING EQUIPMENT: Simco 2400
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 4/4/89 / DATE FINISH/TIME: 4/4/89	SURFACE ELEVATION: Floor / TOTAL DEPTH: 15'
WELL CASING: / SCREEN TYPE:	LENGTH: / SLOT:

GROUND WATER					CASING	CORE	SAMPLER	TUBE
DATE	TIME	DEPTH	WEATHER	TYPE				
				DIAMETER				
				HAMMER WEIGHT				
				FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
					Organic Vapor Reading above background (ppm)	
5	1			Brown damp fine sand w/some quartz rock (≈ 1")	2	
	2			Brown Damp Fine Sand	3	
10	3			No Change	2	
15	4			No Change	0	
20						

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH10

PROJECT: Hughes W. Covina, Scope 1	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration Inc.	DRILLING EQUIPMENT: Simco 2400
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 4/4/89	DATE FINISH/TIME: 4/4/89
SURFACE ELEVATION: Floor	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOVERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
					Organic Vapor Reading above background (ppm)	
5	1			Brown damp fine sand w/some quartz rock (≈ 1")	14	
	2			Brown Damp Fine Sand	6	
10	3			No Change	15	
15	4			No Change	18	
20						

OHM

PAGE 1 OF 1

PART 1

JOB NO. 7087

BORE HOLE NO. OH 11

PROJECT: Hughes W. Covina, Scope 1	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration Inc.	DRILLING EQUIPMENT: Simco 2400
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 4/4/89	DATE FINISH/TIME: 4/4/89
SURFACE ELEVATION: Floor	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
					Organic Vapor Reading above background (ppm)	
5	1			Brown damp fine sand w/some quartz rock (≈ 1")	2	
	2			Brown Damp Fine Sand	2	
10	3			No Change	2	
15	4			No Change	2	
20						

PART 1

JOB NO. 7087

OHM

PAGE 1 OF 1

BORE HOLE NO. OH12

PROJECT: Hughes W. Covina, Scope 1	LOCATION: 1200 W. San Bernardino Rd., W. Covina
DRILLING CONTRACTOR: Datum Exploration Inc.	DRILLING EQUIPMENT: Simco 2400
HYDROGEOLOGIST: K. Gibson	DRILLER:
DATE START/TIME: 4/4/89	DATE FINISH/TIME: 4/4/89
SURFACE ELEVATION: Floor	TOTAL DEPTH: 15'
WELL CASING:	SCREEN TYPE:
LENGTH:	SLOT:

GROUND WATER

DATE	TIME	DEPTH	WEATHER

	CASING	CORE	SAMPLER	TUBE
TYPE				
DIAMETER				
HAMMER WEIGHT				
FALL				

REMARKS

DEPTH	SAMPLE NO.	BLOW COUNT PER 6"	RECOV-ERY	BORE HOLE LOG: LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
					Organic Vapor Reading above background (ppm)	
5	1			Brown damp fine sand w/some quartz rock (≈ 1")	2	
	2			Brown Damp Fine Sand	2	
10	3			No Change	3	
15	4			No Change	3	
20						

APPENDIX E
Radius Database Search Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*PNR0651FW1/267A (DAX9)* *1211 Badillo Street* *West Covina CA 91790*
Project No:	*PNR0651FW1/267A (DAX9)*
Report Type:	*Database Report*
Order No:	*20200319269*
Requested by:	*Geosyntec Consultants*
Date Completed:	*March 20, 2020*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....2
Executive Summary.....3
Executive Summary: Report Summary.....4
Executive Summary: Site Report Summary - Project Property.....9
Executive Summary: Site Report Summary - Surrounding Properties.....10
Executive Summary: Summary by Data Source.....33
Map.....60
Aerial.....63
Topographic Map.....64
Detail Report.....65
Unplottable Summary.....327
Unplottable Report.....328
Appendix: Database Descriptions.....329
Definitions.....342

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property:		*PNR0651FW1/267A (DAX9)* *1211 Badillo Street West Covina CA 91790*
Project No:		*PNR0651FW1/267A (DAX9)*
Coordinates:		
	Latitude:	*34.08754426*
	Longitude:	*-117.92074178*
	UTM Northing:	*3,772,245.32*
	UTM Easting:	*415,057.45*
	UTM Zone:	*UTM Zone 11S*
Elevation:		*453 FT*

Order Information:

Order No:	*20200319269*
Date Requested:	*March 19, 2020*
Requested by:	*Geosyntec Consultants*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (Boundaries)*
City Directory Search	*CD - 2 Street Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
Standard Environmental Records								
Federal								
NPL	Y	1	0	0	0	0	-	0
PROPOSED NPL	Y	1	0	0	0	0	-	0
DELETED NPL	Y	0.5	0	0	0	-	-	0
SEMS	Y	0.5	0	0	0	-	-	0
ODI	Y	0.5	0	0	0	-	-	0
SEMS ARCHIVE	Y	0.5	0	0	**1**	-	-	**1**
CERCLIS	Y	0.5	0	0	**1**	-	-	**1**
IODI	Y	0.5	0	0	0	-	-	0
CERCLIS NFRAP	Y	0.5	0	0	**1**	-	-	**1**
CERCLIS LIENS	Y	0.25	0	0	-	-	-	0
RCRA CORRACTS	Y	1	0	**1**	0	0	-	**1**
RCRA TSD	Y	0.5	0	**5**	**2**	-	-	**7**
RCRA LQG	Y	0.25	0	0	-	-	-	0
RCRA SQG	Y	0.25	0	**9**	-	-	-	**9**
RCRA CESQG	Y	0.25	0	0	-	-	-	0
RCRA NON GEN	Y	0.25	0	**18**	-	-	-	**18**
FED ENG	Y	0.5	0	0	0	-	-	0
FED INST	Y	0.5	0	0	0	-	-	0
ERNS 1982 TO 1986	Y	0.25	0	0	-	-	-	0
ERNS 1987 TO 1989	Y	0.25	0	0	-	-	-	0
ERNS	Y	0.25	0	0	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	-	-	0
FEMA UST	Y	0.25	0	0	-	-	-	0
REFN	Y	0.25	0	0	-	-	-	0
BULK TERMINAL	Y	0.25	0	0	-	-	-	0
SEMS LIEN	Y	0.25	0	0	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
State								
RESPONSE	Y	1	0	0	0	0	-	0
ENVIROSTOR	Y	1	0	**2**	0	**1**	-	**3**
DELISTED ENVS	Y	1	0	0	0	0	-	0
SWF/LF	Y	1	0	0	0	0	-	0
HWP	Y	1	0	**1**	0	0	-	**1**
SWAT	Y	0.5	0	0	0	-	-	0
LDS	Y	0.5	0	0	0	-	-	0
LUST	Y	0.5	0	**3**	**1**	-	-	**4**
DELISTED LST	Y	0.5	0	0	0	-	-	0
SWRCB SWF	Y	0.5	0	0	0	-	-	0
UST	Y	0.25	0	**1**	-	-	-	**1**
UST CLOSURE	Y	0.5	0	0	0	-	-	0
HHSS	Y	0.25	0	**6**	-	-	-	**6**
AST	Y	0.25	0	0	-	-	-	0
TANK OIL GAS	Y	0.25	0	0	-	-	-	0
DELISTED TNK	Y	0.25	0	**4**	-	-	-	**4**
CERS TANK	Y	0.25	0	**1**	-	-	-	**1**
LUR	Y	0.5	0	0	0	-	-	0
HLUR	Y	0.5	0	0	0	-	-	0
DEED	Y	0.5	0	0	0	-	-	0
VCP	Y	0.5	0	0	0	-	-	0
CLEANUP SITES	Y	0.5	0	**1**	0	-	-	**1**
DELISTED COUNTY	Y	0.25	0	0	-	-	-	0
DELISTED CTNK	Y	0.25	0	**1**	-	-	-	**1**
HIST TANK	Y	0.25	0	**6**	-	-	-	**6**
Tribal								
INDIAN LUST	Y	0.5	0	0	0	-	-	0
INDIAN UST	Y	0.25	0	0	-	-	-	0
DELISTED ILST	Y	0.5	0	0	0	-	-	0
DELISTED IUST	Y	0.25	0	0	-	-	-	0
County								
LA SML	Y	0.5	0	0	**1**	-	-	**1**
LA SWF	Y	0.5	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
LA COUNTY CUPA	Y	0.25	0	**43**	-	-	-	**43**
LA HMS	Y	0.25	0	**42**	-	-	-	**42**
UST SANTAFESP	Y	0.25	0	0	-	-	-	0
UST LONGB	Y	0.25	0	0	-	-	-	0
BURBANK CUPA	Y	0.25	0	0	-	-	-	0
UST ELSEGUNDO	Y	0.25	0	0	-	-	-	0
UST SANTA MONICA	Y	0.25	0	0	-	-	-	0
SANTAMON AST	Y	0.25	0	0	-	-	-	0
SANTAMON CUPA	Y	0.25	0	0	-	-	-	0
UST TORRANCE	Y	0.25	0	0	-	-	-	0
UST VERNON	Y	0.25	0	0	-	-	-	0
VERNON CUPA	Y	0.25	0	0	-	-	-	0
UST LA CITY	Y	0.25	0	0	-	-	-	0
AST LA CITY	Y	0.25	0	0	-	-	-	0
LA CITY HAZMAT	Y	0.25	0	0	-	-	-	0

Additional Environmental Records

Federal

PFAS NPL	Y	0.5	0	0	0	-	-	0
FINDS/FRS	Y	0.25	0	**56**	-	-	-	**56**
TRIS	Y	0.25	0	**18**	-	-	-	**18**
PFAS TRI	Y	0.5	0	0	0	-	-	0
PFAS WATER CONTAM	Y	0.5	0	0	0	-	-	0
HMIRS	Y	0.25	0	**2**	-	-	-	**2**
NCDL	Y	0.25	0	0	-	-	-	0
TSCA	Y	0.25	0	0	-	-	-	0
HIST TSCA	Y	0.25	0	0	-	-	-	0
FTTS ADMIN	Y	0.25	0	0	-	-	-	0
FTTS INSP	Y	0.25	0	0	-	-	-	0
PRP	Y	0.25	0	**1**	-	-	-	**1**
SCRD DRYCLEANER	Y	0.5	0	0	0	-	-	0
ICIS	Y	0.25	0	0	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	-	-	-	0
DELISTED FED DRY	Y	0.25	0	0	-	-	-	0
FUDS	Y	3	0	0	0	0	0	0
MLTS	Y	0.25	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
HIST MLTS	Y	0.25	0	0	-	-	-	0
MINES	Y	0.25	0	0	-	-	-	0
ALT FUELS	Y	0.25	0	0	-	-	-	0
SSTS	Y	0.25	0	0	-	-	-	0
PCB	Y	0.5	0	0	0	-	-	0
State								
DRYCLEANERS	Y	0.25	0	**4**	-	-	-	**4**
DELISTED DRYCLEANERS	Y	0.25	0	0	-	-	-	0
DRYC GRANT	Y	0.25	0	0	-	-	-	0
PFAS	Y	0.5	0	0	0	-	-	0
PFAS GW	Y	0.5	0	0	0	-	-	0
HWSS CLEANUP	Y	0.5	0	0	0	-	-	0
DTSC HWF	Y	0.5	0	0	0	-	-	0
INSP COMP ENF	Y	1	0	0	0	0	-	0
SCH	Y	1	0	0	0	0	-	0
CHMIRS	Y	PO	0	**1**	-	-	-	**1**
HAZNET	Y	PO	**3**	**3**	-	-	-	**6**
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HIST MANIFEST	Y	PO	0	**1**	-	-	-	**1**
HIST CORTESE	Y	0.5	0	0	0	-	-	0
CDO/CAO	Y	0.5	0	0	0	-	-	0
CERS HAZ	Y	0.25	0	**18**	-	-	-	**18**
DELISTED HAZ	Y	0.5	0	**1**	**1**	-	-	**2**
GEOTRACKER	Y	0.25	0	0	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	-	-	-	0
EMISSIONS	Y	0.25	0	**20**	-	-	-	**20**
CDL	Y	0.25	0	**4**	-	-	-	**4**
Tribal	***No Tribal additional environmental record sources available for this State.***							
County								
SANTAMON HAZ	Y	0.25	0	0	-	-	-	0
SANTAMON HW	Y	0.25	0	0	-	-	-	0
Total:			**3**	**273**	**8**	**1**	0	**285**

**** PO – Property Only***

**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	HAZNET	FAITH COMMUNITY CHURCH	1211 EAST BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	0	65
1	HAZNET	FAITH COMMUNITY CHURCH	1211 E BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	0	65
1	HAZNET	FAITH COMMUNITY CHURCH	1211 EAST BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	0	66

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
2	CHMIRS	So Cal Edison	1425 San Bernardino Road Covina CA 91770	NE	0.01 / 53.94	5	66
3	CDL		1560 W SAN BERNARDINO RD COVINA CA 91722	NW	0.03 / 153.99	-2	67
4	CDL		1205 EAST ELGENIA AVE WEST COVINA CA 91790	SW	0.05 / 238.16	-9	67
5	LA COUNTY CUPA	ACADEMY SIGNS	1540 W SAN BERNARDINO RD COVINA CA 91723	NW	0.03 / 184.70	-2	67
6	DELISTED TNK	SCE - COVINA CSAS	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 207.03	-2	67
7	FINDS/FRS	SOUTHERN CALIFORNIA EDISON: CUSTOMER SERVICE COVINA OFFICE	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	-2	68
7	LA HMS		1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	-2	68
7	HHSS	CFNTRAL DIVISION ACCOUNTING	1551 W. SAN BERNARDINO ROAD COVINA CA 91722	NW	0.04 / 211.00	-2	69
7	EMISSIONS	SO CAL EDISON	1551 W SAN BERNARDINO RD COVINA CA 91772	NW	0.04 / 211.00	-2	69
7	CERS HAZ	SCE Customer Service Covina Office	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	-2	69
7	HIST TANK	CENTRAL DIVISION ACCOUNTING	1551 W. SAN BERNARDINO ROAD COVINA CA	NW	0.04 / 211.00	-2	71

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
7	LA COUNTY CUPA	SCE CUSTOMER SERVICE COVINA OFFICE	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	-2	71
8	HAZNET	COVINA MT VIEW VENTURE	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	7	72
8	HAZNET	1X RUTH SHAPRIO	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	7	72
8	HAZNET	COVINA MT VIEW VENTURE	1375 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.01 / 53.91	7	72
8	HIST MANIFEST		1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	7	73
9	LA HMS		1554 W SAN BERNARDINO RD COVINA CA 91722	NW	0.05 / 268.96	-3	74
10	RCRA NON GEN	METALS RECOVERY CO INC	1578 D W SAN BERNARDION RD COVINA CA 91722 ***EPA Handler ID:*** CAD077959070	WNW	0.04 / 228.38	-6	75
10	FINDS/FRS	METALS RECOVERY CO INC	1578 D W SAN BERNARDION RD COVINA CA 91722	WNW	0.04 / 228.38	-6	76
11	LA HMS		1578 W SAN BERNARDINO RD #A COVINA CA 91722	NW	0.06 / 295.68	-3	76
11	LA HMS		1578 W SAN BERNARDINO RD #C COVINA CA 91722	NW	0.06 / 295.68	-3	77
11	LA HMS		1578 W SAN BERNARDINO RD #B COVINA CA 91722	NW	0.06 / 295.68	-3	77
11	FINDS/FRS	COVINA SIGN ENTERPRISE	1578 WEST SAN BERNARDINO ROAD, SUITE H COVINA CA 91722	NW	0.06 / 295.68	-3	77

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
12	LA HMS		1580 W SAN BERNARDINO RD #L COVINA CA 91722	NW	0.06 / 307.08	-3	78
12	LA HMS		1580 W SAN BERNARDINO RD #D COVINA CA 91722	NW	0.06 / 307.08	-3	78
12	LA HMS		1580 W SAN BERNARDINO RD #A COVINA CA 91722	NW	0.06 / 307.08	-3	78
12	LA HMS		1580 W SAN BERNARDINO RD #I COVINA CA 91722	NW	0.06 / 307.08	-3	79
12	LA HMS		1580 W SAN BERNARDINO RD #E COVINA CA 91722	NW	0.06 / 307.08	-3	79
12	FINDS/FRS	REV WINERY AND BREWERY	1580 W SAN BERNARDINO RD COVINA CA 91722	NW	0.06 / 307.08	-3	79
12	LA COUNTY CUPA	BILLS PRECISION GRINDING	1580 W SAN BERNARDINO RD M COVINA CA 91722	NW	0.06 / 307.08	-3	80
12	RCRA NON GEN	FRAIJO BROTHERS INC	1580 W SAN BERNARDINO RD STE B COVINA CA 91722 ***EPA Handler ID:*** CAL000448143	NW	0.06 / 307.08	-3	80
13	RCRA SQG	BILLS PRECISION GRINDING	1580 L W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAD982487910	NW	0.06 / 317.38	-4	81
13	FINDS/FRS	BILLS PRECISION GRINDING	1580 L W SAN BERNARDINO RD COVINA CA 91722	NW	0.06 / 317.38	-4	82
14	FINDS/FRS	SOUTHERN CALIFORNIA EDISON	1551 SAN BERNARDINO RD COVINA CA 91722	NW	0.07 / 391.72	-1	83
15	LA HMS		1600 W SAN BERNARDINO RD COVINA CA 91722	NW	0.08 / 438.27	-5	83
16	DELISTED TNK	E-Z GAS	120 N VINCENT AVE COVINA CA 91722	WNW	0.06 / 312.93	-9	84

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
17	LA HMS		1611 E SAN BERNARDINO RD #E COVINA CA 91722	WNW	0.10 / 553.75	-5	84
18	LUST	TEXACO 61-106-0191 (FORMER)	1313 SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	11	84
			Global ID* | *Status* | *Status Date: T0603704212 | COMPLETED - CASE CLOSED | 1996-10-11 00:00:00				
18	LA HMS		1313 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	11	90
18	HHSS	TEXACO	1313 W. SAN BERNARDINO COVINA CA 91722	ENE	0.08 / 447.89	11	90
18	FINDS/FRS	TEXACO 61-106-0191 (FORMER)	1313 SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	11	90
18	HIST TANK	TEXACO	1313 W. SAN BERNARDINO COVINA CA	ENE	0.08 / 447.89	11	91
19	FINDS/FRS	ALMAC PRECISION MANUFACTURING, INC.	1633 WEST SAN BERNARDINO ROAD, UNIT B COVINA CA 91722	WNW	0.13 / 664.32	-7	91
20	LA HMS		1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	-8	92
20	FINDS/FRS	TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	-8	92
20	CERS HAZ	TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	-8	93
20	RCRA NON GEN	TRANSMASTERS TRANSMISSION	1635 W SAN BERNARDINO RD COVINA CA 91722-3409 ***EPA Handler ID:*** CAL000366815	WNW	0.13 / 684.07	-8	95
20	FINDS/FRS	TRANSMASTERS TRANSMISSION	1635 W SAN BERNARDINO RD COVINA CA 91722-3409	WNW	0.13 / 684.07	-8	96

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
20	LA COUNTY CUPA	TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	-8	97
21	RCRA SQG	SERVICE PRO AUTOMOTIVE	1647 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAD983658246	WNW	0.14 / 735.01	-8	97
21	FINDS/FRS	SERVICE PRO AUTOMOTIVE	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	-8	98
21	LA HMS		1647 W SAN BERNARDINO RD WEST COVINA CA 91722	WNW	0.14 / 735.01	-8	98
21	FINDS/FRS	5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	-8	99
21	CERS HAZ	5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	-8	99
21	RCRA NON GEN	FIVE STARZ AUTO REPAIR AND ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAL000372001	WNW	0.14 / 735.01	-8	102
21	LA COUNTY CUPA	5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	-8	103
21	LA COUNTY CUPA	L & F REPAIR	1647 W SAN BERNARDINO RD A COVINA CA 91722	WNW	0.14 / 735.01	-8	103
22	FINDS/FRS	KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	10	103
22	CERS HAZ	KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	10	104
22	RCRA NON GEN	KINDRED HOSPITAL SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791 ***EPA Handler ID:*** CAL000405172	E	0.11 / 573.90	10	106
22	LA COUNTY CUPA	KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	10	107

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
23	CERS HAZ	EARL SCHEIB OF COVINA	1656 SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 697.70	-10	107
23	LA COUNTY CUPA	EARL SCHEIB OF COVINA	1656 SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 697.70	-10	110
24	CDL		535 LARK ELLEN AVENUE COVINA CA 91722	ENE	0.11 / 558.19	12	111
25	FINDS/FRS	EARL SCHEIB INCORPORATED	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	-9	111
25	LA HMS		1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	-9	111
25	EMISSIONS	EARL SCHEIB INCORPORATED	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	-9	112
25	EMISSIONS	MARY SCHEIDEH INC	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	-9	116
26	DRYCLEANERS	SOCIETY CLEANERS & LAUNDRY	1641 WEST SAN BERNANDINO BL WEST COVINA CA 917220000	WNW	0.16 / 842.08	-8	117
26	DRYCLEANERS	SOCIETY CLEANERS & LAUNDRY	1641 WEST SAN BERNANDINO BLVD WEST COVINA CA 917220000	WNW	0.16 / 842.08	-8	117
26	DRYCLEANERS	SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 917220000	WNW	0.16 / 842.08	-8	117
26	FINDS/FRS	SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	118
26	EMISSIONS	SOCIETY CLEANERS & LAUNDRY	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	118

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
26	EMISSIONS	SOCIETY CLEANERS & LAUNDRY, MR	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	120
26	CERS HAZ	SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	121
26	DRYCLEANERS	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	125
26	RCRA NON GEN	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAL000434850	WNW	0.16 / 842.08	-8	125
26	FINDS/FRS	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	126
26	LA COUNTY CUPA	SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	-8	127
27	RCRA SQG	JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAD983620246	N	0.17 / 907.47	4	127
27	FINDS/FRS	JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	128
27	DELISTED HAZ	JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	128
27	CERS HAZ	American Towers - Covina - #302244	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	128
27	CERS HAZ	AT&T MOBILITY - Covina (USID101173)	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	130
27	LA COUNTY CUPA	AMERICAN TOWERS - COVINA - #302244	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	132

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
27	LA COUNTY CUPA	AT&T - SV0131-02 COVINA (101173)	1476 W INDUSTRIAL PARK ST ATT COVINA CA 91722	N	0.17 / 907.47	4	132
27	LA COUNTY CUPA	T-MOBILE WEST SITE ID# IE05404A	1476 W INDUSTRIAL PARK ST B COVINA CA 91722	N	0.17 / 907.47	4	132
27	LA COUNTY CUPA	SPRINT NXTL POTTER	1476 W INDUSTRIAL PARK ST SPRNT COVINA CA 91722	N	0.17 / 907.47	4	132
27	LA COUNTY CUPA	BLUE SABER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	4	133
28	RCRA SQG	GAMBRO INC AMERICAN MEMBRANE DIV	1450 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAD037186269	N	0.17 / 902.02	4	133
28	FINDS/FRS	GAMBRO INC AMERICAN MEMBRANE DIV	1450 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 902.02	4	134
28	HHSS	GAMBRO INC AMERICAN MEMBRAN	1450 INDUSTRIAL PARK ST. COVINA CA 91722	N	0.17 / 902.02	4	135
28	HIST TANK	GAMBRO, INC., AMERICAN MEMBRAN	1450 INDUSTRIAL PARK ST. COVINA CA	N	0.17 / 902.02	4	135
29	LA HMS		1450 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.18 / 938.46	6	135
29	LA COUNTY CUPA	ELECTRIC MELTING SERVICES	1450 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.18 / 938.46	6	136
30	FINDS/FRS	ROYAL CUSTOM DESIGNS, LLC	1449 INDUSTRIAL PARK ST COVINA CA 91722-3414	N	0.17 / 923.32	4	136
30	PRP	LITHO PLATING	1449 INDUSTRIAL PARK ST. COVINA, CA 90262	N	0.17 / 923.32	4	136
30	EMISSIONS	ROYAL CUSTOM DESIGNS INC	1449 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 923.32	4	137

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
30	FINDS/FRS	ROYAL CUSTOM UPHOLSTERY INC	1449 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 923.32	4	141
31	LA HMS		1471 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 911.14	3	141
31	RCRA TSD	COMPOSITES HORIZONS INC	1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414 ***EPA Handler ID:*** CAD981374705	N	0.17 / 911.14	3	142
31	RCRA NON GEN	COMPOSITES HORIZONS INC	1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414 ***EPA Handler ID:*** CAD981374705	N	0.17 / 911.14	3	144
32	FINDS/FRS	COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK STREET COVINA CA 91722-3499	N	0.17 / 908.93	3	146
32	EMISSIONS	COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	3	147
32	EMISSIONS	COMPOSITES H30IZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	3	151
32	CERS HAZ	COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	3	151
32	LA COUNTY CUPA	COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	3	157
33	LUST	VINCENT CHEVRON/MOGHADAM ARCO	206 VINCENT AVE N COVINA CA 91790	W	0.11 / 575.51	-15	157
			Global ID | Status | Status Date: T0603703819 | COMPLETED - CASE CLOSED | 1993-05-26 00:00:00				
34	RCRA SQG	NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAR000257733	NNE	0.18 / 965.44	7	158
34	FINDS/FRS	NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	160

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
34	FINDS/FRS	PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	161
34	EMISSIONS	N.P. COLLISION CENTER	1449 W INDUSTRIAL PARK ST PASADENA CA 91107	NNE	0.18 / 965.44	7	161
34	FINDS/FRS	NORLAINE INC DBA PATINA V	1449 WEST INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	162
34	CERS HAZ	MYK TRADING INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	162
34	EMISSIONS	NORLAINE, INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	167
34	RCRA NON GEN	NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAL000402710	NNE	0.18 / 965.44	7	168
34	LA COUNTY CUPA	MYK TRADING INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	7	169
35	RCRA SQG	S P I PHARMACEUTICALS	220 N VINCENT COVINA CA 91722 ***EPA Handler ID:*** CAD983632969	W	0.11 / 591.44	-15	169
35	FINDS/FRS	S P I PHARMACEUTICALS	220 N VINCENT COVINA CA 91722	W	0.11 / 591.44	-15	170
36	FINDS/FRS	VINCENT CHEVRON	206 VINCENT AVE N COVINA CA 91790	W	0.11 / 586.59	-15	171
37	RCRA SQG	VIRATEK INC	222 N VINCENT AVE COVINA CA 91722 ***EPA Handler ID:*** CAD055495071	W	0.11 / 586.02	-15	171
37	FINDS/FRS	VIRATEK INC	222 N VINCENT AVE COVINA CA 91722	W	0.11 / 586.02	-15	172
37	LA HMS		222 N VINCENT AVE COVINA CA 91722	W	0.11 / 586.02	-15	173

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
37	EMISSIONS	ICN PHARMACEUTICALS-CAL	222 N VINCENT AV COVINA CA 91722	W	0.11 / 586.02	-15	173
38	HHSS	YASHVANT N * SHAH	1274 W. SN BERNDINO LKELLN COVINA CA 91723	E	0.13 / 697.14	13	174
38	HIST TANK	YASHVANT N * =SHAH	1274 W SN BERNDINO COVINA CA	E	0.13 / 697.14	13	174
38	DELISTED CTNK	SHELL (LARK ELLEN)	1274 W SAN BERNANDINO RD COVINA CA 91722	E	0.13 / 697.14	13	174
38	LA COUNTY CUPA	SHELL (LARK ELLEN)	1274 W SAN BERNANDINO RD COVINA CA 91722	E	0.13 / 697.14	13	175
39	CLEANUP SITES	SHELL SERVICE STATION	1274 E. SAN BERNARDINO ROAD COVINA CA 91723 ***Site Facility Type*	*Status:*** CLEANUP PROGRAM SITE | COMPLETED - CASE CLOSED	E	0.13 / 701.39	12	175
40	FINDS/FRS	MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 899.37	2	177
40	LA HMS		1504 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 899.37	2	178
40	CERS HAZ	MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST # A COVINA CA 91722	NNW	0.17 / 899.37	2	178
40	LA COUNTY CUPA	MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 899.37	2	182
41	RCRA TSD	MONTEREY MACHINE PRODUCTS	1504-A INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID:*** CAD983664996	NNW	0.17 / 900.47	2	182
41	RCRA NON GEN	MONTEREY MACHINE PRODUCTS	1504-A INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID:*** CAD983664996	NNW	0.17 / 900.47	2	183
42	LA HMS		1506 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 901.09	2	185

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
43	LA HMS		1508 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 902.92	2	185
43	LA COUNTY CUPA	GUNSPORT PLUS	1508 W INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 902.92	2	185
44	LA HMS		1510 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 904.88	2	185
44	FINDS/FRS	MILLI-FAB INC.	1510 WEST INDUSTRIAL PARK STREET, UNIT A AND B COVINA CA 91722	NNW	0.17 / 904.88	2	186
45	FINDS/FRS	SHELL SERVICE STATION	1274 W SAN BERNARDINO COVINA CA 91722-3510	E	0.13 / 690.80	13	186
45	LA HMS		1274 W SAN BERNARDINO RD COVINA CA 91722	E	0.13 / 690.80	13	187
45	LA HMS		1274 W SAN BERNARDINO RD COVINA CA 91722	E	0.13 / 690.80	13	187
45	RCRA NON GEN	SHELL SERVICE STATION	1274 W SAN BERNARDINO SAP 135210 COVINA CA 91723 ***EPA Handler ID:*** CAR000105015	E	0.13 / 690.80	13	188
46	RCRA NON GEN	MILLI-FAB INC.	1510-A INDUSTRIAL PARK ST. COVINA CA 91722 ***EPA Handler ID:*** CAC003002079	NNW	0.17 / 906.17	2	189
46	FINDS/FRS	MILLI-FAB INC.	1510-A INDUSTRIAL PARK ST. COVINA CA 91722	NNW	0.17 / 906.17	2	190
47	FINDS/FRS	PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	2	191
47	CERS HAZ	PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	2	191

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
47	RCRA NON GEN	PHOTON SYSTEMS DBA 94 631 6007	1512 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAL000286775	NNW	0.17 / 906.97	2	194
47	FINDS/FRS	PHOTON SYSTEMS DBA 94 631 6007	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	2	195
47	LA COUNTY CUPA	PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	2	196
48	LA HMS		1514 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 909.18	2	196
48	LA COUNTY CUPA	STEVENS THREAD GRINDING	1514 W INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 909.18	2	196
48	LA COUNTY CUPA	VALLEY DIAMOND TOOL CO	1514 W INDUSTRIAL PARK ST B COVINA CA 91722	NNW	0.17 / 909.18	2	196
49	FINDS/FRS	PHOTON SYSTEMS, INC.	1512 AND 1514-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 910.60	2	196
50	DELISTED TNK	VINCENT AUTOMOTIVE	1680 W SAN BERNARDINO RD COVINA CA 91722	NW	0.18 / 928.66	-4	197
51	LA HMS		1516 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 911.51	1	197
52	LA HMS		120 N VINCENT AVE COVINA CA 91723	W	0.11 / 584.50	-16	198
52	LA COUNTY CUPA	TEXACO E-Z GAS	120 N VINCENT AVE COVINA CA 91723	W	0.11 / 584.50	-16	198
53	FINDS/FRS	ALLEGIANCE BUSINESS CORP. DBA HI TECH PRECISION	1516-A W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 912.99	1	198
53	FINDS/FRS	5 BOY PRECISION MACHINING	1516-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 912.99	1	199

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
54	LA HMS		1542 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 914.44	1	199
55	LA HMS		1520 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 916.54	1	200
56	LA HMS		1524 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 922.06	1	200
56	LA COUNTY CUPA	DR JOHN'S MOTORCYCLE FRAME	1524 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 922.06	1	200
56	LA COUNTY CUPA	CARBIDE SPECIALTIES CO	1524 INDUSTRIAL PARK ST B COVINA CA 91722	NNW	0.17 / 922.06	1	200
56	FINDS/FRS	KG MACHINING	1524 WEST INDUSTRIAL PARK STREET, UNIT A COVINA CA 91722	NNW	0.17 / 922.06	1	201
56	FINDS/FRS	AB VACUUM MOLD DIE	1524 WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 922.06	1	201
57	LA HMS		1526 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 924.99	1	202
57	RCRA NON GEN	SEA LAP LLC	1526 W INDUSTRIAL PARK ST COVINA CA 91722-3417 ***EPA Handler ID:*** CAL000392144	NNW	0.18 / 924.99	1	202
57	FINDS/FRS	SEA LAP LLC	1526 W INDUSTRIAL PARK ST COVINA CA 91722-3417	NNW	0.18 / 924.99	1	203
58	FINDS/FRS	7-ELEVEN INC. STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	13	204
58	CERS HAZ	7-ELEVEN STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	13	204

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
58	LA COUNTY CUPA	7-ELEVEN INC. STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	13	206
59	RCRA SQG	KORDEN INC	1517 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID:*** CAD981390636	NNW	0.18 / 930.67	1	206
59	FINDS/FRS	KORDEN INC	1517 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 930.67	1	208
59	EMISSIONS	METAL OFF. SALES INC	1517 INDUSTRIAL PARK ST. COVINA CA 91791	NNW	0.18 / 930.67	1	208
59	LA COUNTY CUPA	NYLEX PLASTICS INC	1517 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 930.67	1	209
60	LUST	VINCENT ARCO	1680 SAN BERNARDINO RD W COVINA CA 91722 ***Global ID | Status | Status Date:*** T0603705098 | COMPLETED - CASE CLOSED | 1997-12-23 00:00:00	WNW	0.16 / 847.61	-11	209
61	LA HMS		1530 W INDUSTRIAL PARK ST #A COVINA CA 91722	NNW	0.18 / 931.20	1	211
61	LA HMS		1530 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.18 / 931.20	1	211
61	LA HMS		1530 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 931.20	1	211
62	UST	N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722 ***Facility ID:*** LACoFA0023036	WNW	0.16 / 850.74	-11	212
63	LA HMS		1534 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 937.88	0	212
64	LA COUNTY CUPA	SCE LARK ELLEN SUBSTATION	W BADILLO ST W OF VINCENT AVE WEST COVINA CA 91790	WSW	0.11 / 600.31	-17	212
64	LA COUNTY CUPA	SCE LARK ELLEN SUBSTATION	W BADILLO ST W OF VINCENT AVE WEST COVINA CA 91790	WSW	0.11 / 600.31	-17	212

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
65	HHSS	VINCENT ARCO	1680 W. SAN BERNARDIND RD VINCENT COVINA CA 91722	WNW	0.17 / 896.87	-10	212
66	FINDS/FRS	VINCENT ARCO	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	-10	213
66	FINDS/FRS	EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD # B COVINA CA 91722	WNW	0.17 / 899.97	-10	213
66	EMISSIONS	OAKWOOD MANAGEMENT GROUP, INC.	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	-10	214
66	HIST TANK	VINCENT ARCO	1680 W. SAN BERNARDINO ROAD COVINA CA	WNW	0.17 / 899.97	-10	214
66	EMISSIONS	COVINA ARCO NFM VENTURE INC	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	-10	214
66	FINDS/FRS	NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	-10	215
67	LA HMS		1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	0	215
67	FINDS/FRS	ALL AREA PLUMBING INC	1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	0	216
67	LA COUNTY CUPA	ALL AREA PLUMBING INC	1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	0	216
68	CDL		318 N. VINCENT AVE COVINA CA 91722	WNW	0.15 / 797.26	-13	217
69	FINDS/FRS	AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	0	217
69	CERS HAZ	AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	0	217

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
69	RCRA NON GEN	AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722-3487 ***EPA Handler ID:*** CAD981371529	NNW	0.18 / 952.56	0	219
69	LA COUNTY CUPA	AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	0	220
70	LA HMS		1680 W SAN BERNARDINO RD COVINA CA 917223410	WNW	0.17 / 893.50	-11	221
70	CERS TANK	N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722 ***Site ID:*** 406915	WNW	0.17 / 893.50	-11	222
70	CERS HAZ	EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD # B COVINA CA 91722	WNW	0.17 / 893.50	-11	237
70	LA COUNTY CUPA	N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 893.50	-11	239
70	LA COUNTY CUPA	EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD B COVINA CA 91722	WNW	0.17 / 893.50	-11	239
70	RCRA TSD	NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAC003019843	WNW	0.17 / 893.50	-11	239
70	RCRA NON GEN	NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID:*** CAC003019843	WNW	0.17 / 893.50	-11	240
71	FINDS/FRS	7-ELEVEN INC.STORE #22548	105 N VINCENT AVE COVINA CA 91722	W	0.12 / 653.67	-17	241
71	CERS HAZ	7-ELEVEN INC. STORE #22548	105 N VINCENT AVE COVINA CA 91722	W	0.12 / 653.67	-17	242
71	LA COUNTY CUPA	7-ELEVEN INC.STORE #22548	105 N VINCENT AVE WEST COVINA CA 91722	W	0.12 / 653.67	-17	244

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
72	FINDS/FRS	STEMCYTE	1589 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 985.10	0	244
72	LA COUNTY CUPA	STEMCYTE	1589 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 985.10	0	244
73	LA COUNTY CUPA	MEDSEP CORP	1551 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 986.99	0	245
74	FINDS/FRS	99 CENTS ONLY STORES #103	321 N VINCENT AVE COVINA CA 91722	WNW	0.15 / 792.62	-13	245
74	RCRA NON GEN	99 CENTS ONLY STORES	321 N VINCENT AVE COVINA CA 91722-3905 ***EPA Handler ID:*** CAL000363245	WNW	0.15 / 792.62	-13	245
74	FINDS/FRS	99 CENTS ONLY STORES	321 N VINCENT AVE COVINA CA 91722-3905	WNW	0.15 / 792.62	-13	246
74	LA COUNTY CUPA	99 CENTS ONLY STORE #103	321 N VINCENT AVE COVINA CA 91722	WNW	0.15 / 792.62	-13	247
75	LA HMS		1269 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.15 / 790.16	14	247
76	LA HMS		1630 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.20 / 1,066.96	-2	248
76	CERS HAZ	HAEMONETICS MANUFACTURING INC	1630 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.20 / 1,066.96	-2	248
76	HMIRS		1630 W INDUSTRIAL PARK STREET COVINA CA	NW	0.20 / 1,066.96	-2	251
76	HMIRS		1630 W INDUSTRIAL PARK STREET COVINA CA	NW	0.20 / 1,066.96	-2	251
77	LA COUNTY CUPA	CUMMINGS FLOWERS	443 N VINCENT AVE COVINA CA 91722	WNW	0.19 / 987.87	-12	253

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
78	FINDS/FRS	SES AUTO SERVICE	526N N VINCENT AVE COVINA CA 91722	WNW	0.21 / 1,084.48	-11	253
79	LA HMS		1629 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.22 / 1,184.88	-4	254
80	ENVIROSTOR	HONEYWELL INC	-- WEST COVINA CA 917900000 ***Estor/EPA ID	Cleanup Status:*** CAD008351827 |	SE	0.21 / 1,097.06	-2	254
80	ENVIROSTOR	HONEYWELL INC	-- WEST COVINA CA 917900000 ***Estor/EPA ID	Cleanup Status:*** 80001565 | NO FURTHER ACTION AS OF 9/3/2009	SE	0.21 / 1,097.06	-2	255
80	HWP	HONEYWELL INC	-- WEST COVINA CA 917900000 ***Estor/EPA ID:*** CAD008351827	SE	0.21 / 1,097.06	-2	257
81	FINDS/FRS	HAEMONETICS MFG INC.	1630 INDUSTRIAL PARK ST. COVINA CA 91722-3419	NW	0.23 / 1,206.06	-4	258
81	HHSS	CUTTER LABORATORIES	1630 INDUSTRIAL PARK STREET COVINA CA 91722	NW	0.23 / 1,206.06	-4	259
81	EMISSIONS	CUTTER BIOLOGICAL DIVISION OF	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.23 / 1,206.06	-4	259
81	EMISSIONS	CUTTER LABS	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.23 / 1,206.06	-4	259
81	EMISSIONS	MEDSEP CORPORATION	1630-65 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	-4	260
81	EMISSIONS	MILES INC, CUTTER BIOLOGICAL D	1630-166 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	-4	261
81	HIST TANK	CUTTER LABORATORIES	1630 INDUSTRIAL PARK STREET COVINA CA	NW	0.23 / 1,206.06	-4	262
81	LA COUNTY CUPA	HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	-4	262

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
81	RCRA TSD	HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID:*** CAD118576735	NW	0.23 / 1,206.06	-4	263
81	RCRA NON GEN	HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID:*** CAD118576735	NW	0.23 / 1,206.06	-4	266
82	FINDS/FRS	HFC ENTERPRISES, LTD, L.P.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	-4	270
82	FINDS/FRS	MEZ INDUSTRIES, INC.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	-4	271
82	FINDS/FRS	ORECO DUCT SYSTEMS, INC.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	-4	271
83	LA COUNTY CUPA	CUTTER BIOLOGICAL	1640 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,218.01	-4	272
84	CERS HAZ	SES AUTO SERVICE	526 N VINCENT AVE COVINA CA 91722	WNW	0.23 / 1,191.67	-10	272
84	LA COUNTY CUPA	SES AUTO SERVICE	526 N VINCENT AVE COVINA CA 91722	WNW	0.23 / 1,191.67	-10	275
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	276
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	277
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	279
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	280

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	282
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	283
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	285
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	287
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	288
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	290
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	291
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	293
85	TRIS	MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	-4	295
86	RCRA SQG	COVINA VALLEY USD LAS PALMAS JR HIGH	641 N LARKELLEN COVINA CA 91723 ***EPA Handler ID:*** CAD982042814	NE	0.21 / 1,093.70	14	296
86	FINDS/FRS	COVINA VALLEY USD LAS PALMAS JR HIGH	641 N LARKELLEN COVINA CA 91722-3463	NE	0.21 / 1,093.70	14	297
87	TRIS	HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	18	298
87	TRIS	HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	18	304

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
87	TRIS	HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	18	305
87	TRIS	HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	18	307
87	TRIS	HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	18	308
88	LA HMS		1200 W SAN BERNARDINO RD WEST COVINA CA 917911029	E	0.22 / 1,176.90	18	310
89	DELISTED TNK	LARKELLEN SHELL	1274 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.22 / 1,182.54	18	310
90	RCRA NON GEN	HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098 ***EPA Handler ID:*** CAD008351827	E	0.24 / 1,249.61	19	311
90	RCRA TSD	HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098 ***EPA Handler ID:*** CAD008351827	E	0.24 / 1,249.61	19	312
90	RCRA CORRACTS	HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098 ***EPA Handler ID:*** CAD008351827	E	0.24 / 1,249.61	19	314
90	EMISSIONS	HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791	E	0.24 / 1,249.61	19	316
90	EMISSIONS	HUGHES SIMULATION SYSTEMS INC.	1200 E SAN BERNARDINO RD WEST COVINA CA 91790	E	0.24 / 1,249.61	19	317
90	LA COUNTY CUPA	HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791	E	0.24 / 1,249.61	19	318
91	RCRA TSD	ROBERT & SUSAN LUNA	1127 W BADILLO ST #A COVINA CA 91722 ***EPA Handler ID:*** CAC003007222	E	0.30 / 1,596.41	18	318

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
92	LA SML	SCE BADILLO SUBSTATION	635 VINCENT AVE WEST COVINA CA 91790	SW	0.35 / 1,843.45	-29	319
93	DELISTED HAZ	COVINA BOWL	1060 W SAN BERNARDINO RD COVINA CA 91722	E	0.38 / 2,029.70	27	319
94	LUST	US POSTAL SERVICE COVINA	545 RIMSDALE AVE N COVINA CA 91722	ENE	0.41 / 2,157.30	30	319
			***Global ID	Status	Status Date:*** T0603703479 | COMPLETED - CASE CLOSED | 1996-07-25 00:00:00		
95	CERCLIS	CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	32	321
			Site EPA ID: CAD053869293				
95	CERCLIS NFRAP	CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	32	323
			Site EPA ID: CAD053869293				
95	SEMS ARCHIVE	CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	32	324
			EPA ID: CAD053869293				
96	RCRA TSD	CONNIE MAREAS	1638 E LOUISA AVE WEST COVINA CA 91791	ESE	0.50 / 2,623.92	20	324
			EPA Handler ID: CAC003017689				
97	ENVIROSTOR	BAXTER PHARMASEAL	4401 FOXDALE AVENUE IRWINDALE CA 91706	WNW	0.96 / 5,086.55	-27	325
			***Estor/EPA ID	Cleanup Status:*** 19380055 | REFER: RWQCB AS OF 5/16/1995			

Executive Summary: Summary by Data Source

Standard

Federal

SEMS ARCHIVE - SEMS List 8R Archive Sites

A search of the SEMS ARCHIVE database, dated Nov 25, 2019 has found that there are 1 SEMS ARCHIVE site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	95
	***EPA ID**: CAD053869293*			

CERCLIS - Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS

A search of the CERCLIS database, dated Oct 25, 2013 has found that there are 1 CERCLIS site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	95
	***Site EPA ID**: CAD053869293*			

CERCLIS NFRAP - CERCLIS - No Further Remedial Action Planned

A search of the CERCLIS NFRAP database, dated Oct 25, 2013 has found that there are 1 CERCLIS NFRAP site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
CONRAC CORP-CONRAC DIV.	600 N RIMSDALE AVE COVINA CA 91722	ENE	0.44 / 2,307.48	95
	***Site EPA ID**: CAD053869293*			

RCRA CORRACTS - RCRA CORRACTS-Corrective Action

A search of the RCRA CORRACTS database, dated Nov 18, 2019 has found that there are 1 RCRA CORRACTS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098	E	0.24 / 1,249.61	90
	***EPA Handler ID**: CAD008351827*			

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Nov 18, 2019 has found that there are 7 RCRA TSD site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
COMPOSITES HORIZONS INC	1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414 ***EPA Handler ID**: CAD981374705*	N	0.17 / 911.14	31
MONTEREY MACHINE PRODUCTS	1504-A INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID**: CAD983664996*	NNW	0.17 / 900.47	41
HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098 ***EPA Handler ID**: CAD008351827*	E	0.24 / 1,249.61	90
ROBERT & SUSAN LUNA	1127 W BADILLO ST #A COVINA CA 91722 ***EPA Handler ID**: CAC003007222*	E	0.30 / 1,596.41	91
CONNIE MAREAS	1638 E LOUISA AVE WEST COVINA CA 91791 ***EPA Handler ID**: CAC003017689*	ESE	0.50 / 2,623.92	96

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAC003019843*	WNW	0.17 / 893.50	70
HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID**: CAD118576735*	NW	0.23 / 1,206.06	81

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Nov 18, 2019 has found that there are 9 RCRA SQG site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAD983620246*	N	0.17 / 907.47	27
GAMBRO INC AMERICAN MEMBRANE DIV	1450 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAD037186269*	N	0.17 / 902.02	28
NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAR000257733*	NNE	0.18 / 965.44	34
KORDEN INC	1517 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAD981390636*	NNW	0.18 / 930.67	59

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
COVINA VALLEY USD LAS PALMAS JR HIGH	641 N LARKELLEN COVINA CA 91723 ***EPA Handler ID**: CAD982042814*	NE	0.21 / 1,093.70	86

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
BILLS PRECISION GRINDING	1580 L W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAD982487910*	NW	0.06 / 317.38	13
SERVICE PRO AUTOMOTIVE	1647 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAD983658246*	WNW	0.14 / 735.01	21
S P I PHARMACEUTICALS	220 N VINCENT COVINA CA 91722 ***EPA Handler ID**: CAD983632969*	W	0.11 / 591.44	35
VIRATEK INC	222 N VINCENT AVE COVINA CA 91722 ***EPA Handler ID**: CAD055495071*	W	0.11 / 586.02	37

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Nov 18, 2019 has found that there are 18 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KINDRED HOSPITAL SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791 ***EPA Handler ID**: CAL000405172*	E	0.11 / 573.90	22
COMPOSITES HORIZONS INC	1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414 ***EPA Handler ID**: CAD981374705*	N	0.17 / 911.14	31
NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAL000402710*	NNE	0.18 / 965.44	34
MONTEREY MACHINE PRODUCTS	1504-A INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID**: CAD983664996*	NNW	0.17 / 900.47	41
SHELL SERVICE STATION	1274 W SAN BERNARDINO SAP 135210 COVINA CA 91723 ***EPA Handler ID**: CAR000105015*	E	0.13 / 690.80	45
MILLI-FAB INC.	1510-A INDUSTRIAL PARK ST. COVINA CA 91722 ***EPA Handler ID**: CAC003002079*	NNW	0.17 / 906.17	46

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PHOTON SYSTEMS DBA 94 631 6007	1512 INDUSTRIAL PARK ST COVINA CA 91722 ***EPA Handler ID**: CAL000286775*	NNW	0.17 / 906.97	47
SEA LAP LLC	1526 W INDUSTRIAL PARK ST COVINA CA 91722-3417 ***EPA Handler ID**: CAL000392144*	NNW	0.18 / 924.99	57
AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722-3487 ***EPA Handler ID**: CAD981371529*	NNW	0.18 / 952.56	69
HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098 ***EPA Handler ID**: CAD008351827*	E	0.24 / 1,249.61	90

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
METALS RECOVERY CO INC	1578 D W SAN BERNARDION RD COVINA CA 91722 ***EPA Handler ID**: CAD077959070*	WNW	0.04 / 228.38	10
FRAIJO BROTHERS INC	1580 W SAN BERNARDINO RD STE B COVINA CA 91722 ***EPA Handler ID**: CAL000448143*	NW	0.06 / 307.08	12
TRANSMASTERS TRANSMISSION	1635 W SAN BERNARDINO RD COVINA CA 91722-3409 ***EPA Handler ID**: CAL000366815*	WNW	0.13 / 684.07	20
FIVE STARZ AUTO REPAIR AND ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAL000372001*	WNW	0.14 / 735.01	21
ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAL000434850*	WNW	0.16 / 842.08	26
NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722 ***EPA Handler ID**: CAC003019843*	WNW	0.17 / 893.50	70
99 CENTS ONLY STORES	321 N VINCENT AVE COVINA CA 91722-3905 ***EPA Handler ID**: CAL000363245*	WNW	0.15 / 792.62	74
HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722-0000 ***EPA Handler ID**: CAD118576735*	NW	0.23 / 1,206.06	81

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Jan 15, 2020 has found that there are 3 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
HONEYWELL INC	-- WEST COVINA CA 917900000	SE	0.21 / 1,097.06	80
	***Estor/EPA ID** | **Cleanup Status**: 80001565 | NO FURTHER ACTION AS OF 9/3/2009*			
HONEYWELL INC	-- WEST COVINA CA 917900000	SE	0.21 / 1,097.06	80
	***Estor/EPA ID** | **Cleanup Status**: CAD008351827 |*			
BAXTER PHARMASEAL	4401 FOXDALE AVENUE IRWINDALE CA 91706	WNW	0.96 / 5,086.55	97
	***Estor/EPA ID** | **Cleanup Status**: 19380055 | REFER: RWQCB AS OF 5/16/1995*			

HWP - EnviroStor Hazardous Waste Facilities

A search of the HWP database, dated Jan 15, 2020 has found that there are 1 HWP site(s) within approximately 1.00 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
HONEYWELL INC	-- WEST COVINA CA 917900000	SE	0.21 / 1,097.06	80
	***Estor/EPA ID**: CAD008351827*			

LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Nov 14, 2019 has found that there are 4 LUST site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
TEXACO 61-106-0191 (FORMER)	1313 SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	18
	***Global ID** | **Status** | **Status Date**: T0603704212 | COMPLETED - CASE CLOSED | 1996-10-11 00:00:00*			
US POSTAL SERVICE COVINA	545 RIMSDALE AVE N COVINA CA 91722	ENE	0.41 / 2,157.30	94
	***Global ID** | **Status** | **Status Date**: T0603703479 | COMPLETED - CASE CLOSED | 1996-07-25 00:00:00*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
VINCENT CHEVRON/MOGHADAM ARCO	206 VINCENT AVE N COVINA CA 91790	W	0.11 / 575.51	33
	***Global ID** | **Status** | **Status Date**: T0603703819 | COMPLETED - CASE CLOSED | 1993-05-26 00:00:00*			
VINCENT ARCO	1680 SAN BERNARDINO RD W COVINA CA 91722	WNW	0.16 / 847.61	60
	***Global ID** | **Status** | **Status Date**: T0603705098 | COMPLETED - CASE CLOSED | 1997-12-23 00:00:00*			

UST - Permitted Underground Storage Tank (UST) in GeoTracker

A search of the UST database, dated Nov 14, 2019 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722 ***Facility ID**: LACoFA0023036*	WNW	0.16 / 850.74	62

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 6 HHSS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
TEXACO	1313 W. SAN BERNARDINO COVINA CA 91722	ENE	0.08 / 447.89	18
GAMBRO INC AMERICAN MEMBRAN	1450 INDUSTRIAL PARK ST. COVINA CA 91722	N	0.17 / 902.02	28
YASHVANT N * SHAH	1274 W. SN BERNDINO LKELLN COVINA CA 91723	E	0.13 / 697.14	38

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CFNTRAL DIVISION ACCOUNTING	1551 W. SAN BERNARDINO ROAD COVINA CA 91722	NW	0.04 / 211.00	7
VINCENT ARCO	1680 W. SAN BERNARDIND RD VINCENT COVINA CA 91722	WNW	0.17 / 896.87	65
CUTTER LABORATORIES	1630 INDUSTRIAL PARK STREET COVINA CA 91722	NW	0.23 / 1,206.06	81

DELISTED TNK - Delisted Storage Tanks

A search of the DELISTED TNK database, dated Feb 21, 2020 has found that there are 4 DELISTED TNK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
LARKELLEN SHELL	1274 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.22 / 1,182.54	89

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SCE - COVINA CSAS	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 207.03	6
E-Z GAS	120 N VINCENT AVE COVINA CA 91722	WNW	0.06 / 312.93	16
VINCENT AUTOMOTIVE	1680 W SAN BERNARDINO RD COVINA CA 91722	NW	0.18 / 928.66	50

CERS TANK - California Environmental Reporting System (CERS) Tanks

A search of the CERS TANK database, dated Feb 18, 2020 has found that there are 1 CERS TANK site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 893.50	70
	***Site ID**: 406915*			

CLEANUP SITES - GeoTracker Cleanup Program Sites

A search of the CLEANUP SITES database, dated Nov 14, 2019 has found that there are 1 CLEANUP SITES site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SHELL SERVICE STATION	1274 E. SAN BERNARDINO ROAD COVINA CA 91723	E	0.13 / 701.39	39
	***Site Facility Type** | **Status**: CLEANUP PROGRAM SITE | COMPLETED - CASE CLOSED*			

DELISTED CTNK - Delisted California Environmental Reporting System (CERS) Tanks

A search of the DELISTED CTNK database, dated Feb 18, 2020 has found that there are 1 DELISTED CTNK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SHELL (LARK ELLEN)	1274 W SAN BERNANDINO RD COVINA CA 91722	E	0.13 / 697.14	38

HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary

A search of the HIST TANK database, dated May 27, 1988 has found that there are 6 HIST TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
TEXACO	1313 W. SAN BERNARDINO COVINA CA	ENE	0.08 / 447.89	18

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
GAMBRO, INC., AMERICAN MEMBRAN	1450 INDUSTRIAL PARK ST. COVINA CA	N	0.17 / 902.02	28
YASHVANT N * =SHAH	1274 W SN BERNDINO COVINA CA	E	0.13 / 697.14	38

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CENTRAL DIVISION ACCOUNTING	1551 W. SAN BERNARDINO ROAD COVINA CA	NW	0.04 / 211.00	7
VINCENT ARCO	1680 W. SAN BERNARDINO ROAD COVINA CA	WNW	0.17 / 899.97	66
CUTTER LABORATORIES	1630 INDUSTRIAL PARK STREET COVINA CA	NW	0.23 / 1,206.06	81

County

LA SML - Los Angeles County - Site Mitigation List

A search of the LA SML database, dated Dec 10, 2019 has found that there are 1 LA SML site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SCE BADILLO SUBSTATION	635 VINCENT AVE WEST COVINA CA 91790	SW	0.35 / 1,843.45	92

LA COUNTY CUPA - Los Angeles County - CUPA Program Records

A search of the LA COUNTY CUPA database, dated Dec 10, 2019 has found that there are 43 LA COUNTY CUPA site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	22
AMERICAN TOWERS - COVINA - #302244	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
AT&T - SV0131-02 COVINA (101173)	1476 W INDUSTRIAL PARK ST ATT COVINA CA 91722	N	0.17 / 907.47	27
T-MOBILE WEST SITE ID# IE05404A	1476 W INDUSTRIAL PARK ST B COVINA CA 91722	N	0.17 / 907.47	27
SPRINT NXTL POTTER	1476 W INDUSTRIAL PARK ST SPRNT COVINA CA 91722	N	0.17 / 907.47	27
BLUE SABER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27
ELECTRIC MELTING SERVICES	1450 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.18 / 938.46	29
COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	32
MYK TRADING INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
SHELL (LARK ELLEN)	1274 W SAN BERNANDINO RD COVINA CA 91722	E	0.13 / 697.14	38
MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 899.37	40
GUNSPORT PLUS	1508 W INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 902.92	43
PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	47
STEVENS THREAD GRINDING	1514 W INDUSTRIAL PARK ST A COVINA CA 91722	NNW	0.17 / 909.18	48
VALLEY DIAMOND TOOL CO	1514 W INDUSTRIAL PARK ST B COVINA CA 91722	NNW	0.17 / 909.18	48

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
DR JOHN'S MOTORCYCLE FRAME	1524 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 922.06	56
CARBIDE SPECIALTIES CO	1524 INDUSTRIAL PARK ST B COVINA CA 91722	NNW	0.17 / 922.06	56
7-ELEVEN INC. STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	58
NYLEX PLASTICS INC	1517 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 930.67	59
AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	69
HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791	E	0.24 / 1,249.61	90

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ACADEMY SIGNS	1540 W SAN BERNARDINO RD COVINA CA 91723	NW	0.03 / 184.70	5
SCE CUSTOMER SERVICE COVINA OFFICE	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	7
BILLS PRECISION GRINDING	1580 W SAN BERNARDINO RD M COVINA CA 91722	NW	0.06 / 307.08	12
TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	20
5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	21
L & F REPAIR	1647 W SAN BERNARDINO RD A COVINA CA 91722	WNW	0.14 / 735.01	21
EARL SCHEIB OF COVINA	1656 SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 697.70	23

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
TEXACO E-Z GAS	120 N VINCENT AVE COVINA CA 91723	W	0.11 / 584.50	52
SCE LARK ELLEN SUBSTATION	W BADILLO ST W OF VINCENT AVE WEST COVINA CA 91790	WSW	0.11 / 600.31	64
SCE LARK ELLEN SUBSTATION	W BADILLO ST W OF VINCENT AVE WEST COVINA CA 91790	WSW	0.11 / 600.31	64
ALL AREA PLUMBING INC	1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	67
N & M PROPERTY LLC	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 893.50	70
EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD B COVINA CA 91722	WNW	0.17 / 893.50	70
7-ELEVEN INC.STORE #22548	105 N VINCENT AVE WEST COVINA CA 91722	W	0.12 / 653.67	71
STEMCYTE	1589 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 985.10	72
MEDSEP CORP	1551 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 986.99	73
99 CENTS ONLY STORE #103	321 N VINCENT AVE COVINA CA 91722	WNW	0.15 / 792.62	74
CUMMINGS FLOWERS	443 N VINCENT AVE COVINA CA 91722	WNW	0.19 / 987.87	77
HAEMONETICS MANUFACTURING INC	1630 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	81

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CUTTER BIOLOGICAL	1640 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,218.01	83
SES AUTO SERVICE	526 N VINCENT AVE COVINA CA 91722	WNW	0.23 / 1,191.67	84

LA HMS - Los Angeles County - HMS List

A search of the LA HMS database, dated Jan 15, 2020 has found that there are 42 LA HMS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1313 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	18
	1450 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.18 / 938.46	29
	1471 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 911.14	31
	1504 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 899.37	40
	1506 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 901.09	42
	1508 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 902.92	43
	1510 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 904.88	44
	1274 W SAN BERNARDINO RD COVINA CA 91722	E	0.13 / 690.80	45
	1274 W SAN BERNARDINO RD COVINA CA 91722	E	0.13 / 690.80	45

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1514 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 909.18	48
	1516 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 911.51	51
	1542 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 914.44	54
	1520 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 916.54	55
	1524 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.17 / 922.06	56
	1526 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 924.99	57
	1530 W INDUSTRIAL PARK ST #B COVINA CA 91722	NNW	0.18 / 931.20	61
	1530 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 931.20	61
	1530 W INDUSTRIAL PARK ST #A COVINA CA 91722	NNW	0.18 / 931.20	61
	1534 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 937.88	63
	1269 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.15 / 790.16	75
	1200 W SAN BERNARDINO RD WEST COVINA CA 917911029	E	0.22 / 1,176.90	88

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	7

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1554 W SAN BERNARDINO RD COVINA CA 91722	NW	0.05 / 268.96	9
	1578 W SAN BERNARDINO RD #A COVINA CA 91722	NW	0.06 / 295.68	11
	1578 W SAN BERNARDINO RD #C COVINA CA 91722	NW	0.06 / 295.68	11
	1578 W SAN BERNARDINO RD #B COVINA CA 91722	NW	0.06 / 295.68	11
	1580 W SAN BERNARDINO RD #A COVINA CA 91722	NW	0.06 / 307.08	12
	1580 W SAN BERNARDINO RD #L COVINA CA 91722	NW	0.06 / 307.08	12
	1580 W SAN BERNARDINO RD #D COVINA CA 91722	NW	0.06 / 307.08	12
	1580 W SAN BERNARDINO RD #I COVINA CA 91722	NW	0.06 / 307.08	12
	1580 W SAN BERNARDINO RD #E COVINA CA 91722	NW	0.06 / 307.08	12
	1600 W SAN BERNARDINO RD COVINA CA 91722	NW	0.08 / 438.27	15
	1611 E SAN BERNARDINO RD #E COVINA CA 91722	WNW	0.10 / 553.75	17
	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	20
	1647 W SAN BERNARDINO RD WEST COVINA CA 91722	WNW	0.14 / 735.01	21

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	25
	222 N VINCENT AVE COVINA CA 91722	W	0.11 / 586.02	37
	120 N VINCENT AVE COVINA CA 91723	W	0.11 / 584.50	52
	1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	67
	1680 W SAN BERNARDINO RD COVINA CA 917223410	WNW	0.17 / 893.50	70
	1630 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.20 / 1,066.96	76
	1629 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.22 / 1,184.88	79

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Nov 6, 2019 has found that there are 56 FINDS/FRS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
TEXACO 61-106-0191 (FORMER)	1313 SAN BERNARDINO RD COVINA CA 91722	ENE	0.08 / 447.89	18
KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	22
JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
GAMBRO INC AMERICAN MEMBRANE DIV	1450 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 902.02	28
ROYAL CUSTOM DESIGNS, LLC	1449 INDUSTRIAL PARK ST COVINA CA 91722-3414	N	0.17 / 923.32	30
ROYAL CUSTOM UPHOLSTERY INC	1449 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 923.32	30
COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK STREET COVINA CA 91722-3499	N	0.17 / 908.93	32
NORLAINE INC DBA PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
PATINA V	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
NORLAINE INC DBA PATINA V	1449 WEST INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 899.37	40
MILLI-FAB INC.	1510 WEST INDUSTRIAL PARK STREET, UNIT A AND B COVINA CA 91722	NNW	0.17 / 904.88	44
SHELL SERVICE STATION	1274 W SAN BERNARDINO COVINA CA 91722-3510	E	0.13 / 690.80	45
MILLI-FAB INC.	1510-A INDUSTRIAL PARK ST. COVINA CA 91722	NNW	0.17 / 906.17	46
PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	47
PHOTON SYSTEMS DBA 94 631 6007	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	47

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PHOTON SYSTEMS, INC.	1512 AND 1514-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 910.60	49
ALLEGIANCE BUSINESS CORP. DBA HI TECH PRECISION	1516-A W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 912.99	53
5 BOY PRECISION MACHINING	1516-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 912.99	53
KG MACHINING	1524 WEST INDUSTRIAL PARK STREET, UNIT A COVINA CA 91722	NNW	0.17 / 922.06	56
AB VACUUM MOLD DIE	1524 WEST INDUSTRIAL PARK STREET COVINA CA 91722	NNW	0.17 / 922.06	56
SEA LAP LLC	1526 W INDUSTRIAL PARK ST COVINA CA 91722-3417	NNW	0.18 / 924.99	57
7-ELEVEN INC. STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	58
KORDEN INC	1517 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 930.67	59
AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	69
COVINA VALLEY USD LAS PALMAS JR HIGH	641 N LARKELLEN COVINA CA 91722-3463	NE	0.21 / 1,093.70	86

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SOUTHERN CALIFORNIA EDISON: CUSTOMER SERVICE COVINA OFFICE	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	7
METALS RECOVERY CO INC	1578 D W SAN BERNARDION RD COVINA CA 91722	WNW	0.04 / 228.38	10
COVINA SIGN ENTERPRISE	1578 WEST SAN BERNARDINO ROAD, SUITE H COVINA CA 91722	NW	0.06 / 295.68	11

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
REV WINERY AND BREWERY	1580 W SAN BERNARDINO RD COVINA CA 91722	NW	0.06 / 307.08	12
BILLS PRECISION GRINDING	1580 L W SAN BERNARDINO RD COVINA CA 91722	NW	0.06 / 317.38	13
SOUTHERN CALIFORNIA EDISON	1551 SAN BERNARDINO RD COVINA CA 91722	NW	0.07 / 391.72	14
ALMAC PRECISION MANUFACTURING, INC.	1633 WEST SAN BERNARDINO ROAD, UNIT B COVINA CA 91722	WNW	0.13 / 664.32	19
TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	20
TRANSMASTERS TRANSMISSION	1635 W SAN BERNARDINO RD COVINA CA 91722-3409	WNW	0.13 / 684.07	20
SERVICE PRO AUTOMOTIVE	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	21
5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	21
EARL SCHEIB INCORPORATED	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	25
SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
S P I PHARMACEUTICALS	220 N VINCENT COVINA CA 91722	W	0.11 / 591.44	35
VINCENT CHEVRON	206 VINCENT AVE N COVINA CA 91790	W	0.11 / 586.59	36

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
VIRATEK INC	222 N VINCENT AVE COVINA CA 91722	W	0.11 / 586.02	37
VINCENT ARCO	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	66
EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD # B COVINA CA 91722	WNW	0.17 / 899.97	66
NEMER SAAB	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	66
ALL AREA PLUMBING INC	1560 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 949.04	67
7-ELEVEN INC.STORE #22548	105 N VINCENT AVE COVINA CA 91722	W	0.12 / 653.67	71
STEMCYTE	1589 W INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.19 / 985.10	72
99 CENTS ONLY STORES #103	321 N VINCENT AVE COVINA CA 91722	WNW	0.15 / 792.62	74
99 CENTS ONLY STORES	321 N VINCENT AVE COVINA CA 91722-3905	WNW	0.15 / 792.62	74
SES AUTO SERVICE	526N N VINCENT AVE COVINA CA 91722	WNW	0.21 / 1,084.48	78
HAEMONETICS MFG INC.	1630 INDUSTRIAL PARK ST. COVINA CA 91722-3419	NW	0.23 / 1,206.06	81
HFC ENTERPRISES, LTD, L.P.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	82
MEZ INDUSTRIES, INC.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	82

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ORECO DUCT SYSTEMS, INC.	1629 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,213.56	82

TRIS - Toxics Release Inventory (TRI) Program

A search of the TRIS database, dated Dec 31, 2017 has found that there are 18 TRIS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	87
HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	87
HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	87
HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	87
HUGHES TRAINING INC.	1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	E	0.22 / 1,174.65	87

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85
MEDSEP CORP.	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.24 / 1,249.27	85

HMIRS - Hazardous Materials Information Reporting System

A search of the HMIRS database, dated Jan 8, 2020 has found that there are 2 HMIRS site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1630 W INDUSTRIAL PARK STREET COVINA CA	NW	0.20 / 1,066.96	76
	1630 W INDUSTRIAL PARK STREET COVINA CA	NW	0.20 / 1,066.96	76

PRP - Potentially Responsible Parties List

A search of the PRP database, dated Oct 25, 2019 has found that there are 1 PRP site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
LITHO PLATING	1449 INDUSTRIAL PARK ST. COVINA, CA 90262	N	0.17 / 923.32	30

State

DRYCLEANERS - Dry Cleaning Facilities

A search of the DRYCLEANERS database, dated Feb 3, 2020 has found that there are 4 DRYCLEANERS site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SOCIETY CLEANERS & LAUNDRY	1641 WEST SAN BERNANDINO BL WEST COVINA CA 917220000	WNW	0.16 / 842.08	26
ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 917220000	WNW	0.16 / 842.08	26
SOCIETY CLEANERS & LAUNDRY	1641 WEST SAN BERNANDINO BLVD WEST COVINA CA 917220000	WNW	0.16 / 842.08	26

CHMIRS - California Hazardous Material Incident Report System (CHMIRS)

A search of the CHMIRS database, dated Oct 23, 2019 has found that there are 1 CHMIRS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
So Cal Edison	1425 San Bernardino Road Covina CA 91770	NE	0.01 / 53.94	2

HAZNET - Hazardous Waste Manifest Data

A search of the HAZNET database, dated Oct 24, 2016 has found that there are 6 HAZNET site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
COVINA MT VIEW VENTURE	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	8
COVINA MT VIEW VENTURE	1375 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.01 / 53.91	8

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
1X RUTH SHAPRIO	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	8

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
FAITH COMMUNITY CHURCH	1211 EAST BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	1
FAITH COMMUNITY CHURCH	1211 EAST BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	1
FAITH COMMUNITY CHURCH	1211 E BADILLO ST WEST COVINA CA 917900000	WSW	0.00 / 0.00	1

HIST MANIFEST - Historical Hazardous Waste Manifest Data

A search of the HIST MANIFEST database, dated Dec 31, 1992 has found that there are 1 HIST MANIFEST site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	ENE	0.01 / 53.91	8

CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the CERS HAZ database, dated Feb 18, 2020 has found that there are 18 CERS HAZ site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KINDRED HOSPITAL-SAN GABRIEL VALLEY	845 N LARK ELLEN AVE WEST COVINA CA 91791	E	0.11 / 573.90	22
AT&T MOBILITY - Covina (USID101173)	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27
American Towers - Covina - #302244	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27
COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	32

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
MYK TRADING INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
MONTEREY MACHINE PRODUCTS	1504 INDUSTRIAL PARK ST # A COVINA CA 91722	NNW	0.17 / 899.37	40
PHOTON SYSTEMS	1512 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.17 / 906.97	47
7-ELEVEN STORE #19251	1275 W SAN BERNARDINO RD COVINA CA 91722	ENE	0.14 / 713.94	58
AZUSA ENGINEERING INC	1542 INDUSTRIAL PARK ST COVINA CA 91722	NNW	0.18 / 952.56	69

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SCE Customer Service Covina Office	1551 W SAN BERNARDINO RD COVINA CA 91722	NW	0.04 / 211.00	7
TRANSMASTER TRANSMISSION INC	1635 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 684.07	20
5 STARZ AUTO REPAIR & ELECTRIC	1647 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.14 / 735.01	21
EARL SCHEIB OF COVINA	1656 SAN BERNARDINO RD COVINA CA 91722	WNW	0.13 / 697.70	23
SOCIETY CLEANERS	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
EXPRESS AUTO REPAIR	1680 W SAN BERNARDINO RD # B COVINA CA 91722	WNW	0.17 / 893.50	70
7-ELEVEN INC. STORE #22548	105 N VINCENT AVE COVINA CA 91722	W	0.12 / 653.67	71

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
HAEMONETICS MANUFACTURING INC	1630 W INDUSTRIAL PARK ST COVINA CA 91722	NW	0.20 / 1,066.96	76
SES AUTO SERVICE	526 N VINCENT AVE COVINA CA 91722	WNW	0.23 / 1,191.67	84

DELISTED HAZ - Delisted Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the DELISTED HAZ database, dated Nov 29, 2018 has found that there are 2 DELISTED HAZ site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
JOHN W POTTER INC	1476 W INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 907.47	27
COVINA BOWL	1060 W SAN BERNARDINO RD COVINA CA 91722	E	0.38 / 2,029.70	93

EMISSIONS - Toxic Pollutant Emissions Facilities

A search of the EMISSIONS database, dated Dec 31, 2017 has found that there are 20 EMISSIONS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
ROYAL CUSTOM DESIGNS INC	1449 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 923.32	30
COMPOSITES HORIZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	32
COMPOSITES H30IZONS INC	1471 INDUSTRIAL PARK ST COVINA CA 91722	N	0.17 / 908.93	32
N.P. COLLISION CENTER	1449 W INDUSTRIAL PARK ST PASADENA CA 91107	NNE	0.18 / 965.44	34
NORLAINE, INC	1449 W INDUSTRIAL PARK ST COVINA CA 91722	NNE	0.18 / 965.44	34
METAL OFF. SALES INC	1517 INDUSTRIAL PARK ST. COVINA CA 91791	NNW	0.18 / 930.67	59

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HUGHES TRAINING INC	1200 E SAN BERNARDINO RD WEST COVINA CA 91791	E	0.24 / 1,249.61	90
HUGHES SIMULATION SYSTEMS INC.	1200 E SAN BERNARDINO RD WEST COVINA CA 91790	E	0.24 / 1,249.61	90

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SO CAL EDISON	1551 W SAN BERNARDINO RD COVINA CA 91772	NW	0.04 / 211.00	7
EARL SCHEIB INCORPORATED	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	25
MARY SCHEIDEH INC	1656 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.15 / 788.60	25
SOCIETY CLEANERS & LAUNDRY	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
SOCIETY CLEANERS & LAUNDRY, MR	1641 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.16 / 842.08	26
ICN PHARMACEUTICALS-CAL	222 N VINCENT AV COVINA CA 91722	W	0.11 / 586.02	37
OAKWOOD MANAGEMENT GROUP, INC.	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	66
COVINA ARCO NFM VENTURE INC	1680 W SAN BERNARDINO RD COVINA CA 91722	WNW	0.17 / 899.97	66
MILES INC, CUTTER BIOLOGICAL D	1630-166 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	81
MEDSEP CORPORATION	1630-65 INDUSTRIAL PARK ST COVINA CA 91722	NW	0.23 / 1,206.06	81

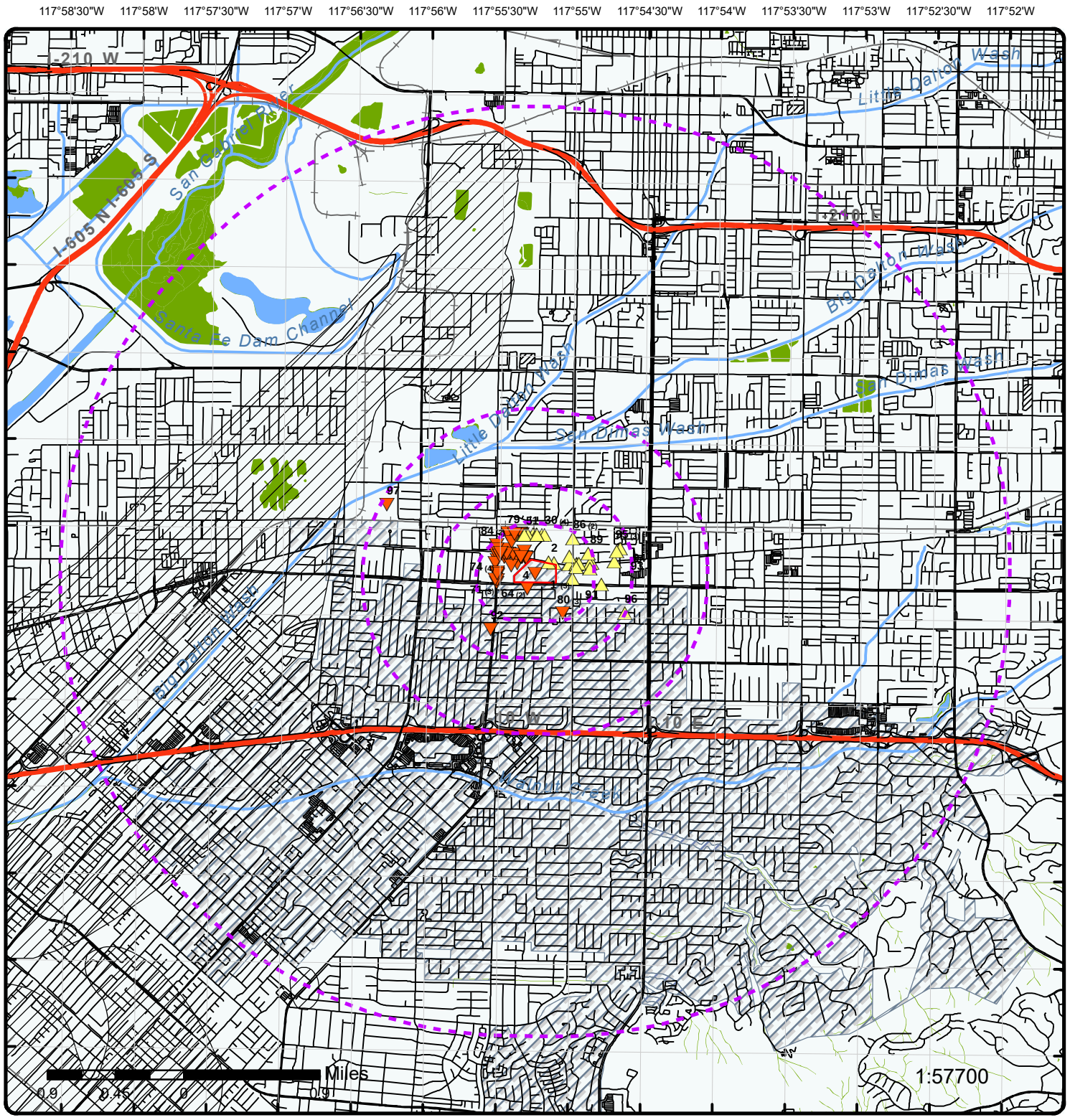
Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CUTTER LABS	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.23 / 1,206.06	81
CUTTER BIOLOGICAL DIVISION OF	1630 INDUSTRIAL PARK ST. COVINA CA 91722	NW	0.23 / 1,206.06	81

CDL - Clandestine Drug Lab Sites

A search of the CDL database, dated Jun 30, 2018 has found that there are 4 CDL site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	535 LARK ELLEN AVENUE COVINA CA 91722	ENE	0.11 / 558.19	24

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1560 W SAN BERNARDINO RD COVINA CA 91722	NW	0.03 / 153.99	3
	1205 EAST ELGENIA AVE WEST COVINA CA 91790	SW	0.05 / 238.16	4
	318 N. VINCENT AVE COVINA CA 91722	WNW	0.15 / 797.26	68



Map : 3.0 Mile Radius

Order Number: 20200319269

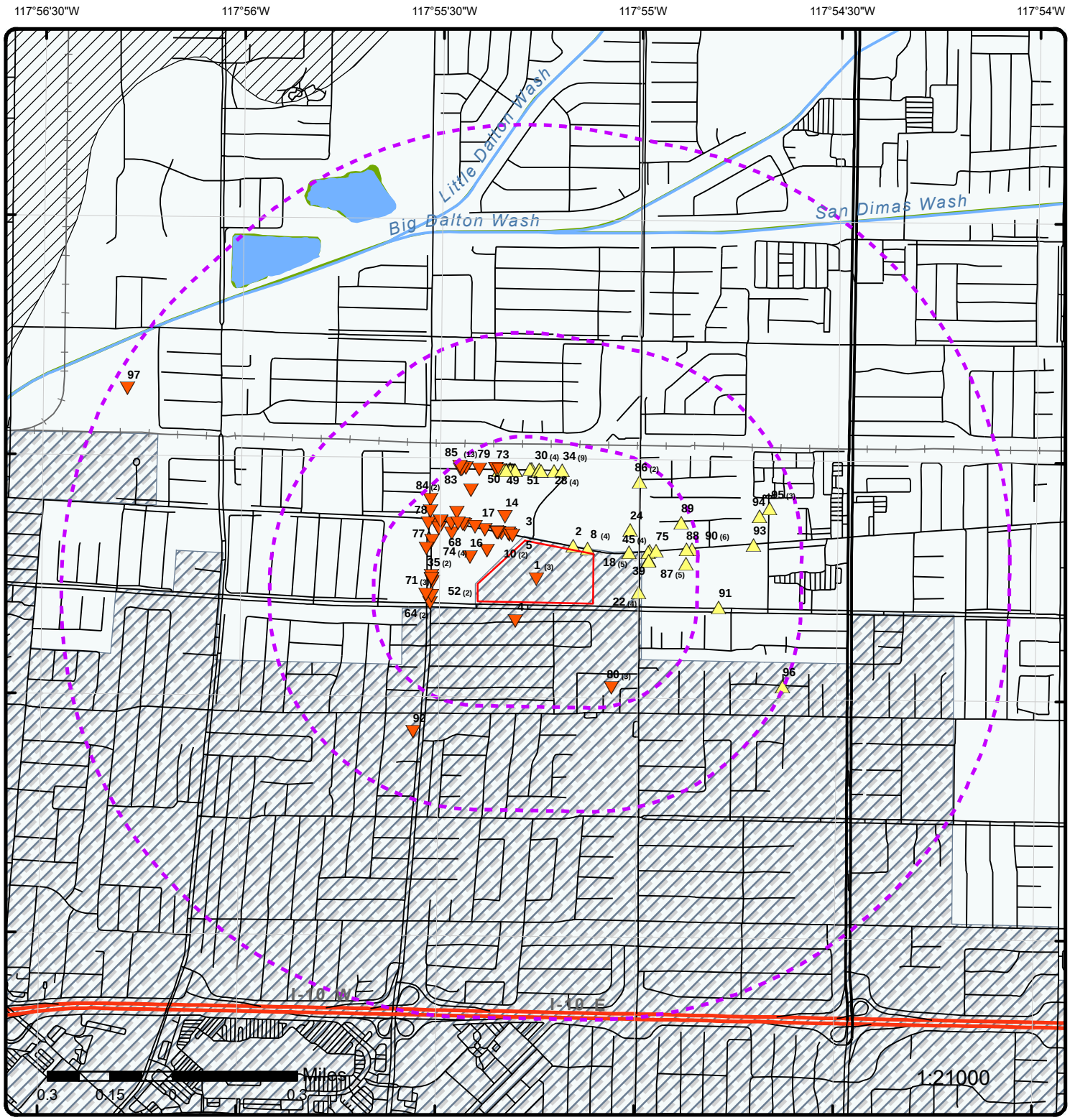
Address: 1211 Badillo Street, West Covina, CA

ENVIRONMENTAL RISK INFORMATION SERVICES

Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

Source: © 2016 ESRI

© ERIS Information Inc.



Map : 1.0 Mile Radius

Order Number: 20200319269

Address: 1211 Badillo Street, West Covina, CA

ENVIRONMENTAL RISK INFORMATION SERVICES

Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

Source: © 2016 ESRI

© ERIS Information Inc.



Map : 0.5 Mile Radius

Order Number: 20200319269

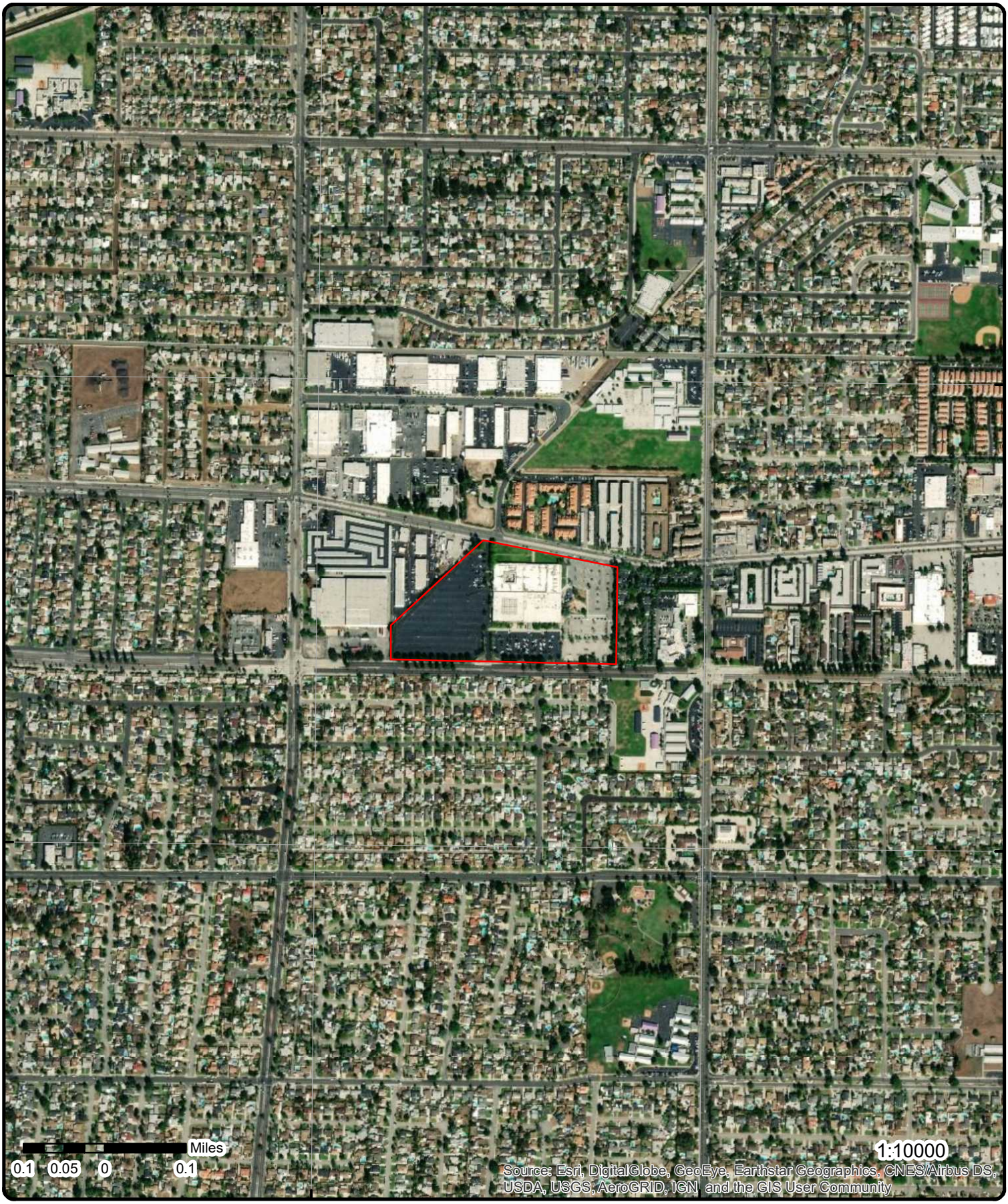
Address: 1211 Badillo Street, West Covina, CA

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

Source: © 2016 ESRI

© ERIS Information Inc.



Aerial **Year: 2018**

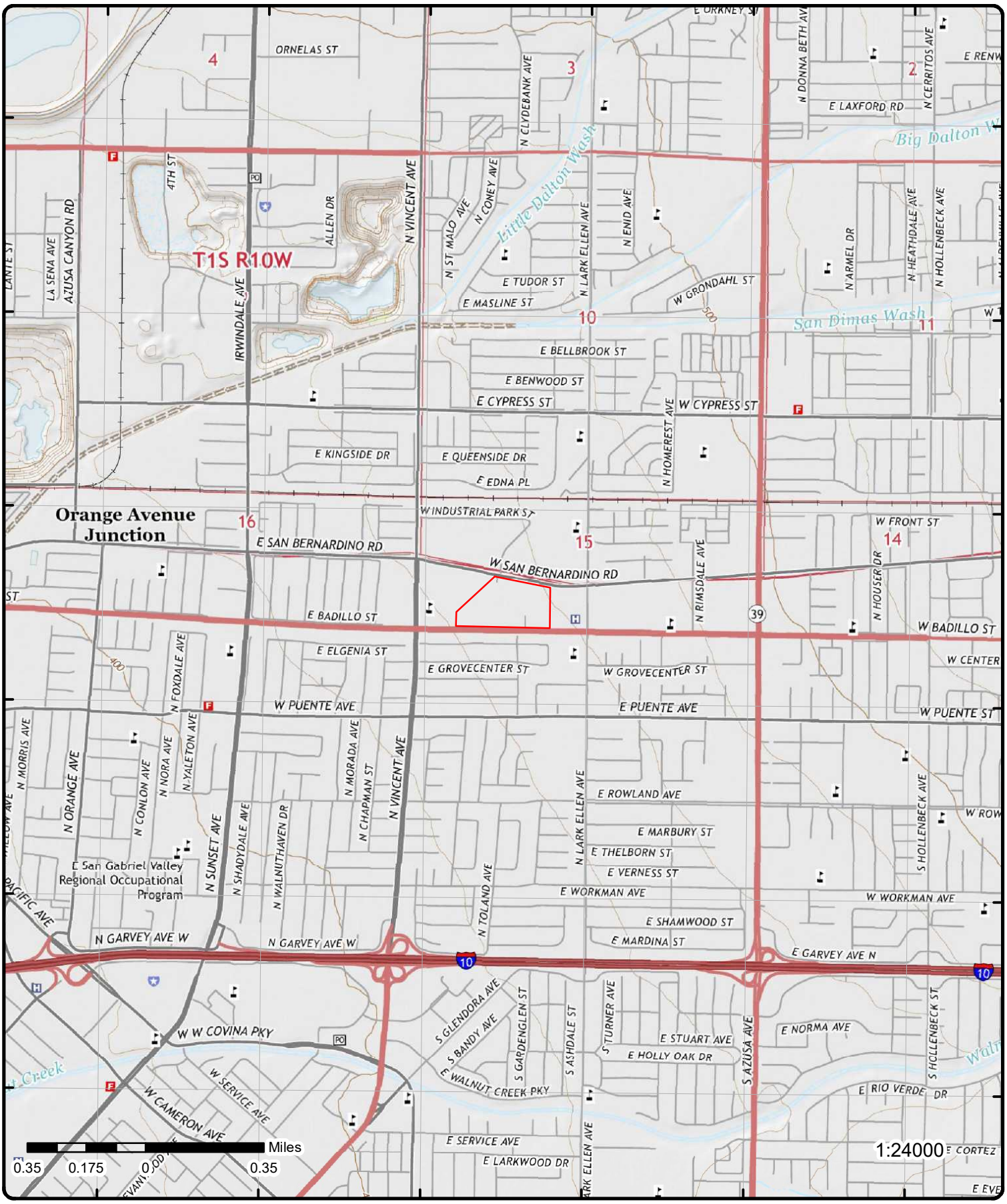
Address: 1211 Badillo Street, West Covina, CA

Order Number: 20200319269

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

© ERIS Information Inc.

Source: ESRI World Imagery



Topographic Map

Year: 2015

Order Number: 20200319269

Address: 1211 Badillo Street, CA

Quadrangle(s): Baldwin Park,CA; Glendora,CA; Azusa,CA; Mount Wilson,CA; El Monte,CA; San Dimas,CA; La Habra,CA

ENVIRONMENTAL RISK INFORMATION SERVICES

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 3	WSW	0.00 / 0.00	452.98 / 0	FAITH COMMUNITY CHURCH 1211 EAST BADILLO ST WEST COVINA CA 917900000	HAZNET

SIC Code:		**Mailing City:**	WEST COVINA
NAICS Code:		**Mailing State:**	CA
EPA ID:	CAC002436471	**Mailing Zip:**	917900000
Create Date:	2/1/2002	**Region Code:**	3
Fac Act Ind:	No	**Owner Name:**	FAITH COMNUNITY CHURCH
Inact Date:	9/10/2002	**Owner Addr 1:**	1211 EAST BADILLO ST
County Code:	19	**Owner Addr 2:**	
County Name:	Los Angeles	**Owner City:**	WEST COVINA
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	1211 EAST BADILLO ST	**Owner Zip:**	917900000
Mailing Addr 2:		**Owner Phone:**	6268588400
Owner Fax:			

Contact Information

--	--
Contact Name:	KAREN JACOBS
Street Address 1:	1211 EAST BADILLO ST
Street Address 2:	
City:	WEST COVINA
State:	CA
Zip:	917900000
Phone:	6268588400
--	--
--	--

Tanner Information

--	--
Generator EPA ID:	CAC002436471
Generator County Code:	19
Generator County:	Los Angeles
TSD EPA ID:	CAL000827758
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	261
State Waste Code Desc.:	Polychlorinated biphenyls and material containing PCBs
Method Code:	D80
Method Description:	Disposal, landfill
Tons:	2.6448
Year:	2002
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 3	WSW	0.00 / 0.00	452.98 / 0	FAITH COMMUNITY CHURCH 1211 E BADILLO ST WEST COVINA CA 917900000	HAZNET

SIC Code:		**Mailing City:**	WEST COVINA
NAICS Code:		**Mailing State:**	CA
EPA ID:	CAC002633154	**Mailing Zip:**	917900000
Create Date:	7/30/2008	**Region Code:**	3
Fac Act Ind:	No	**Owner Name:**	FAITH COMNUNITY CHURCH
Inact Date:	1/27/2009	**Owner Addr 1:**	1211 E BADILLO ST
County Code:	19	**Owner Addr 2:**	
County Name:	Los Angeles	**Owner City:**	WEST COVINA
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	1211 E BADILLO ST	**Owner Zip:**	917900000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Mailing Addr 2:		**Owner Phone:**	6268588400
Owner Fax:			

Contact Information

--	--
Contact Name:	MEL GAINES
Street Address 1:	1211 E BADILLO ST
Street Address 2:	
City:	WEST COVINA
State:	CA
Zip:	917900000
Phone:	6268588400
--	--
--	--

Tanner Information

--	--
Generator EPA ID:	CAC002633154
Generator County Code:	19
Generator County:	Los Angeles
TSD EPA ID:	AZC950823111
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	151
State Waste Code Desc.:	Asbestos containing waste
Method Code:	H132
Method Description:	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)
Tons:	6
Year:	2008
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	3 of 3	WSW	0.00 / 0.00	452.98 / 0	**FAITH COMMUNITY CHURCH** **1211 EAST BADILLO ST** **WEST COVINA CA 917900000**	HAZNET

SIC Code:		**Mailing City:**	WEST COVINA
NAICS Code:		**Mailing State:**	CA
EPA ID:	CAC002410879	**Mailing Zip:**	917900000
Create Date:	7/24/2001	**Region Code:**	3
Fac Act Ind:	No	**Owner Name:**	FAITH COMNUNITY CHURCH
Inact Date:	2/1/2002	**Owner Addr 1:**	1211 EAST BADILLO ST
County Code:	19	**Owner Addr 2:**	
County Name:	Los Angeles	**Owner City:**	WEST COVINA
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	1211 EAST BADILLO ST	**Owner Zip:**	917900000
Mailing Addr 2:		**Owner Phone:**	0000000000
Owner Fax:			

Contact Information

--	--
Contact Name:	KAREN JACOBS
Street Address 1:	1211 EAST BADILLO ST
Street Address 2:	
City:	WEST COVINA
State:	CA
Zip:	917900000
Phone:	6268588400
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
2	1 of 1	NE	0.01 / 53.94	458.77 / 5	**So Cal Edison** **1425 San Bernardino Road** **Covina CA 91770**	CHMIRS

Clean Control No:		**Notified Date:**	7/21/200412:16:02 PM
Notified Date Time:		**Year:**	2004
County:	Los Angeles County		
URL:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Yes	***Bbls:***	0
Substance:	Mineral oil	***Cups:***	0
Incident Date:	7/21/200412:00:00 AM	***Cuft:***	0
No of Injuries:	0	***Gals:***	100
No of Fatals:	0	***Grams:***	0
No of Evacs:	0	***Lbs:***	0
Cleanup:	Reporting Party	***Liters:***	0
Water:		***Oz:***	0
Water Way:		***Pts:***	0
City:	Covina	***Qts:***	0
County:	Los Angeles County	***Sheen:***	0
Zip:	91770	***Tons:***	0
Site:	Residence	***Unknown:***	0
Admin Agency:	L. A. County Fire Prevention		
Location:	1425 San Bernardino Road		
Description:	Transformer leaked into the soil.		

3	*1 of 1*	*NW*	*0.03 / 153.99*	*451.41 / -2*	***1560 W SAN BERNARDINO RD COVINA CA 91722***	***CDL***

Clue:	2002-01-201
Date:	1/30/2002
County:	LOS ANGELES
Lab Type:	A
Lab Type Description:	Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

4	*1 of 1*	*SW*	*0.05 / 238.16*	*444.38 / -9*	***1205 EAST ELGENIA AVE WEST COVINA CA 91790***	***CDL***

Clue:	2015-06-015
Date:	6/23/2015
County:	LOS ANGELES
Lab Type:	L
Lab Type Description:	Illegal Drug Lab - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

5	*1 of 1*	*NW*	*0.03 / 184.70*	*451.44 / -2*	***ACADEMY SIGNS 1540 W SAN BERNARDINO RD COVINA CA 91723***	***LA COUNTY CUPA***

Facility ID:	FA0023029
CERS ID:	0

Inactive Facility Details

PE:	1001
PE:	3001

6	*1 of 1*	*NW*	*0.04 / 207.03*	*451.44 / -2*	***SCE - COVINA CSAS 1551 W SAN BERNARDINO RD COVINA CA 91722***	***DELISTED TNK***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Delisted Storage Tanks

Facility ID: 12368
County: Los Angeles
Permitting Agency: LOS ANGELES COUNTY
Original Source: UST
Record Date: 30-JAN-2017
Latitude: 34.08904
Longitude: -117.92211

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	1 of 7	NW	0.04 / 211.00	451.44 / -2	SOUTHERN CALIFORNIA EDISON: CUSTOMER SERVICE COVINA OFFICE 1551 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110055864417
FIPS Code: 19
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 15-SEP-2013 13:44:23
Update Date: 14-OCT-2015 11:49:57
Interest Types: STATE MASTER
SIC Codes: 4911
SIC Code Descriptions: ELECTRIC SERVICES
NAICS Codes: 221122
NAICS Code Descriptions: ELECTRIC POWER DISTRIBUTION.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.088982
Longitude: -117.921881
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055864417
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	2 of 7	NW	0.04 / 211.00	451.44 / -2	1551 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 012247
Area: 6B

Detail Info

Permit No: 00004795T
Permit Cat Desc: Underground Storage Tank
Status Code: REM
Status Desc: Equipment Removed
Permit Status Desc: Equipment Removed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: REM
Permit Category: T
File No: 013060
File Name: SEE 012247-012368

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail Info

Permit No:	00004025T	***Permit Status Code:***	REM
Permit Cat Desc:	Underground Storage Tank	***Permit Category:***	T
Status Code:	REM	***File No:***	012368
Status Desc:	Equipment Removed	***File Name:***	SCE - COVINA CSAS
Permit Status Desc:	Equipment Removed		
Permit Type:	0		
Permit Type Desc:	Underground Storage Tank Operating Permit		

7	*3 of 7*	*NW*	*0.04 / 211.00*	*451.44 / -2*	***CFNTRAL DIVISION ACCOUNTING*** ***1551 W. SAN BERNARDINO ROAD*** ***COVINA CA 91722***	***HHSS***

County:	Los Angeles
Pdf File Url:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002874b.pdf

7	*4 of 7*	*NW*	*0.04 / 211.00*	*451.44 / -2*	***SO CAL EDISON*** ***1551 W SAN BERNARDINO RD*** ***COVINA CA 91772***	***EMISSIONS***

1990 Criteria Data

Facility ID:	3617	***CERR Code:***	
Facility SIC Code:	4911	***TOGT:***	
CO:	19	***ROGT:***	
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	0
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1990 Toxic Data

Facility ID:	3617	***COID:***	LA
Facility SIC Code:	4911	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

7	*5 of 7*	*NW*	*0.04 / 211.00*	*451.44 / -2*	***SCE Customer Service Covina Office*** ***1551 W SAN BERNARDINO RD*** ***COVINA CA 91722***	***CERS HAZ***

Site ID:	155426
Latitude:	34.089025
Longitude:	-117.921868
County:	Los Angeles County

Regulated Programs

EI ID:	10148755	***EI Description:***	Chemical Storage Facilities

Evaluations

Eval Date:	01/12/2016
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Los Angeles County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

Greg Austin, manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
City:	Rosemead
State:	CA
Country:	
Zip Code:	91770
Phone:	

Affil Type Desc:	Property Owner
Entity Name:	Southern California Edison
Entity Title:	
Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
City:	Rosemead
State:	CA
Country:	United States
Zip Code:	91770
Phone:	(626) 302-1212

Affil Type Desc:	Operator
Entity Name:	Southern California Edison
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(626) 302-1212

Affil Type Desc:	Legal Owner
Entity Name:	Southern California Edison
Entity Title:	
Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
City:	Rosemead
State:	CA
Country:	United States
Zip Code:	91770
Phone:	(626) 302-1212

Affil Type Desc:	Environmental Contact
Entity Name:	Environmental Notification Center
Entity Title:	
Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
City:	Rosemead
State:	CA
Country:	
Zip Code:	91770
Phone:	

Affil Type Desc:	Document Preparer
Entity Name:	Roslyn Woods

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: Roslyn Woods
Entity Title: Consultant
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Parent Corporation
Entity Name: Southern California Edison, Customer Service Business Unit (CSBU)
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code: HMBP
Program ID: 10148755
Latitude: 34.089030
Longitude: -117.921870
Coord Name:
Ref Point Type Desc: Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	6 of 7	NW	0.04 / 211.00	451.44 / -2	CENTRAL DIVISION ACCOUNTING 1551 W. SAN BERNARDINO ROAD COVINA CA	HIST TANK

Owner Name: SOUTHERN CALIFORNIA EDISON COM
Owner Street: 2244 WALNUT GROVE AVENUE
Owner City: ROSEMEAD
Owner State: CA
Owner Zip: 91770
No of Containers: 1
County: LOS ANGELES
Facility State: CA
Facility Zip: 91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	7 of 7	NW	0.04 / 211.00	451.44 / -2	SCE CUSTOMER SERVICE COVINA OFFICE 1551 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0023031
CERS ID: 10148755

Active Facility Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

PE: 3000

Inactive Facility Details

PE: 7124

---

8 ***1 of 4*** ***ENE*** ***0.01 / 53.91*** ***460.76 / 7*** ***COVINA MT VIEW VENTURE***
1375 W SAN BERNARDINO ROAD
COVINA CA 917220000 ***HAZNET***

SIC Code:		***Mailing City:***	ENCINO
NAICS Code:		***Mailing State:***	CA
EPA ID:	CAC002580698	***Mailing Zip:***	91426
Create Date:	8/9/2004	***Region Code:***	3
Fac Act Ind:	No	***Owner Name:***	COVINA MT VIEW VENTURE
Inact Date:	3/7/2005	***Owner Addr 1:***	PO BOX 260515
County Code:	19	***Owner Addr 2:***	
County Name:	Los Angeles	***Owner City:***	ENCINO
Mail Name:		***Owner State:***	CA
Mailing Addr 1:	PO BOX 260515	***Owner Zip:***	91426
Mailing Addr 2:		***Owner Phone:***	7602442688
Owner Fax:			

Contact Information

--	--
Contact Name:	NICK CORRIO
Street Address 1:	PO BOX 260515
Street Address 2:	
City:	ENCINO
State:	CA
Zip:	91426
Phone:	7602442688
--	--

---

8 ***2 of 4*** ***ENE*** ***0.01 / 53.91*** ***460.76 / 7*** ***1X RUTH SHAPRIO***
1375 W SAN BERNARDINO ROAD
COVINA CA 917220000 ***HAZNET***

SIC Code:		***Mailing City:***	COVINA
NAICS Code:		***Mailing State:***	CA
EPA ID:	CAC000821584	***Mailing Zip:***	917220000
Create Date:	8/31/1992	***Region Code:***	3
Fac Act Ind:	No	***Owner Name:***	RUTH SHAPRIO
Inact Date:	10/25/2000	***Owner Addr 1:***	--
County Code:	19	***Owner Addr 2:***	
County Name:	Los Angeles	***Owner City:***	--
Mail Name:		***Owner State:***	99
Mailing Addr 1:	--	***Owner Zip:***	--
Mailing Addr 2:		***Owner Phone:***	0000000000
Owner Fax:			

Contact Information

--	--
Contact Name:	ANNETTE LOPEZ HAZ MAT SPEC II
Street Address 1:	--
Street Address 2:	
City:	--
State:	99
Zip:	--
Phone:	2138904089
--	--

---

8 ***3 of 4*** ***ENE*** ***0.01 / 53.91*** ***460.76 / 7*** ***COVINA MT VIEW VENTURE***
1375 W SAN BERNARDINO RD
COVINA CA 91722 ***HAZNET***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SIC Code:		**Mailing City:**	ENCINO
NAICS Code:		**Mailing State:**	CA
EPA ID:	CAC002587317	**Mailing Zip:**	91426
Create Date:	2/23/2005	**Region Code:**	3
Fac Act Ind:	No	**Owner Name:**	RUTH SHAPIRO
Inact Date:	8/23/2005	**Owner Addr 1:**	PO BOX 260515
County Code:	19	**Owner Addr 2:**	
County Name:	Los Angeles	**Owner City:**	ENCINO
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	PO BOX 260515	**Owner Zip:**	91426
Mailing Addr 2:		**Owner Phone:**	8187840949
Owner Fax:			

Contact Information

--	--
Contact Name:	RUTH SHAPIRO
Street Address 1:	PO BOX 260515
Street Address 2:	
City:	ENCINO
State:	CA
Zip:	91426
Phone:	8187840949
--	--
--	--

Tanner Information

--	--
Generator EPA ID:	CAC002587317
Generator County Code:	19
Generator County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	151
State Waste Code Desc.:	Asbestos containing waste
Method Code:	D80
Method Description:	Disposal, landfill
Tons:	1.6856
Year:	2005
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
8	4 of 4	ENE	0.01 / 53.91	460.76 / 7	1375 W SAN BERNARDINO ROAD COVINA CA 917220000	HIST MANIFEST

Gen EPA ID:	CAC000821584
Create Date:	8/31/1992 0:00:00
Inact Date:	10/25/2000 0:00:00
Facility Mail Street:	--
Facility Mail City:	COVINA
Facility Mail State:	CA
Facility Mail Zip:	917220000
Contact Phone(s):	2138904089
File Year(s):	1992
Contact Name(s):	ANNETTE LOPEZ HAZ MAT SPEC II

Tanner Information

Method Description:	
Tons:	0
Year:	1992
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	
Tsd County Code:	19
Tsd County:	Los Angeles
State Waste Code:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

State Waste Code Desc:
Tsd Epa ID: CAD000088252

Tanner Information

Method Description:
Tons: 0.04
Year: 1992
Generator County Code: 19
Generator County: Los Angeles
Method Code: H01
Tsd County Code: 19
Tsd County: Los Angeles
State Waste Code: 123
State Waste Code Desc: Unspecified alkaline solution
Tsd Epa ID: CAD000088252

Tanner Information

Method Description:
Tons: 0.05
Year: 1992
Generator County Code: 19
Generator County: Los Angeles
Method Code: H01
Tsd County Code: 19
Tsd County: Los Angeles
State Waste Code: 214
State Waste Code Desc: Unspecified solvent mixture
Tsd Epa ID: CAD000088252

Tanner Information

Method Description:
Tons: 0.02
Year: 1992
Generator County Code: 19
Generator County: Los Angeles
Method Code: H01
Tsd County Code: 19
Tsd County: Los Angeles
State Waste Code: 223
State Waste Code Desc: Unspecified oil-containing waste
Tsd Epa ID: CAD000088252

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	1 of 1	NW	0.05 / 268.96	450.43 / -3	1554 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 022887
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032026
File Name: RADIATOR PRINCE/BUD'S MUFFLER

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	1 of 2	WNW	0.04 / 228.38	447.37 / -6	METALS RECOVERY CO INC 1578 D W SAN BERNARDION RD COVINA CA 91722	RCRA NON GEN

EPA Handler ID: CAD077959070
Gen Status Universe: No Report
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 1578 D W SAN BERNARDION RD , , COVINA , CA, 91722 , US
Contact Phone No and Ext: 818-967-2871
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Other
Receive Date: 19860819

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated November, 2019.

Evaluation Details

Evaluation Start Date: 19901127
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860819
Handler Name: METALS RECOVERY CO INC
Generator Status Universe: No Report
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source Type:	Notification	**Zip Code:**	99999
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	NOT REQUIRED
Name:	CHRIS O BECK	**Street 2:**	
Date Became Current:		**City:**	NOT REQUIRED
Date Ended Current:		**State:**	ME
Phone:	415-555-1212	**Country:**	
Source Type:	Notification	**Zip Code:**	99999

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	2 of 2	WNW	0.04 / 228.38	447.37 / -6	METALS RECOVERY CO INC 1578 D W SAN BERNARDION RD COVINA CA 91722	FINDS/FRS

Registry ID:	110002659196
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	29-DEC-2014 08:55:36
Interest Types:	TRANSPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	REGION09
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374053011009
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.090045
Longitude:	-117.938246
Reference Point:	PLANT ENTRANCE (GENERAL)
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	150
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002659196
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	1 of 4	NW	0.06 / 295.68	450.13 / -3	1578 W SAN BERNARDINO RD #A COVINA CA 91722	LA HMS

Site No:	022888
Area:	6B

Detail Info

Permit No:		**Permit Status Code:**	
Permit Cat Desc:		**Permit Category:**	
Status Code:	OPEN	**File No:**	032027
Status Desc:	File Opened, no permit exists	**File Name:**	COVINA SIGN ENTERPRISE
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	2 of 4	NW	0.06 / 295.68	450.13 / -3	1578 W SAN BERNARDINO RD #C COVINA CA 91722	LA HMS

Site No: 022890
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032029
File Name: RAECO PRECISION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	3 of 4	NW	0.06 / 295.68	450.13 / -3	1578 W SAN BERNARDINO RD #B COVINA CA 91722	LA HMS

Site No: 022889
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032028
File Name: METALS RECOVERY CO INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	4 of 4	NW	0.06 / 295.68	450.13 / -3	COVINA SIGN ENTERPRISE 1578 WEST SAN BERNARDINO ROAD, SUITE H COVINA CA 91722	FINDS/FRS

Registry ID: 110070619476
FIPS Code:
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 06-OCT-2019 22:51:41
Update Date:
Interest Types: ICIS-NPDES UNPERMITTED
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070619476
Program Acronyms:

12	1 of 8	NW	0.06 / 307.08	450.13 / -3	1580 W SAN BERNARDINO RD #L COVINA CA 91722	LA HMS

Site No: 025493
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034962
File Name: BILL'S PRECISION GRINDING

12	2 of 8	NW	0.06 / 307.08	450.13 / -3	1580 W SAN BERNARDINO RD #D COVINA CA 91722	LA HMS

Site No: 025500
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034968
File Name: G&M PRECISION LTD

12	3 of 8	NW	0.06 / 307.08	450.13 / -3	1580 W SAN BERNARDINO RD #A COVINA CA 91722	LA HMS

Site No: 025495
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034964
File Name: D V PRINTING

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	4 of 8	NW	0.06 / 307.08	450.13 / -3	1580 W SAN BERNARDINO RD #I COVINA CA 91722	LA HMS

Site No: 025486
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034956
File Name: D V PRINTING

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034952
File Name: WISDOM USA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	5 of 8	NW	0.06 / 307.08	450.13 / -3	1580 W SAN BERNARDINO RD #E COVINA CA 91722	LA HMS

Site No: 025497
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034966
File Name: DIAMOND EDM WIRE CUTTING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	6 of 8	NW	0.06 / 307.08	450.13 / -3	REV WINERY AND BREWERY 1580 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110070095143
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 07-AUG-2017 11:12:54
Update Date:
Interest Types: ICIS-NPDES NON-MAJOR, STORM WATER INDUSTRIAL
SIC Codes: 2082
SIC Code Descriptions: MALT BEVERAGES
NAICS Codes:
NAICS Code Descriptions:
Conveyor: ICIS
Federal Facility Code:
Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude: 34.087999
Longitude: -117.923206
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070095143
Program Acronyms:

12	*7 of 8*	*NW*	*0.06 / 307.08*	*450.13 / -3*	***BILLS PRECISION GRINDING*** ***1580 W SAN BERNARDINO RD M*** ***COVINA CA 91722***	***LA COUNTY CUPA***

Facility ID: FA0023032
CERS ID: 0

Inactive Facility Details

PE: 3001

PE: 1001

12	*8 of 8*	*NW*	*0.06 / 307.08*	*450.13 / -3*	***FRAIJO BROTHERS INC*** ***1580 W SAN BERNARDINO RD*** ***STE B*** ***COVINA CA 91722***	***RCRA NON GEN***

EPA Handler ID: CAL000448143
Gen Status Universe: No Report
Contact Name: DAVID FRAIJO
Contact Address: 1580 W SAN BERNARDINO RD STE B , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 760-508-3110
Contact Email: DFRJ@ICOUD.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20190809

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190809
Handler Name: FRAIJO BROTHERS INC
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: DAVID FRAIJO
Date Became Current:
Date Ended Current:
Phone: 760-508-3110
Source Type: Implementer
Street No:
Street 1: 1580 W SAN BERNARDINO RD STE B
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Owner
Type: Other
Name: FRAIJO BROTHERS INC
Date Became Current:
Date Ended Current:
Phone: 626-967-7600
Source Type: Implementer
Street No:
Street 1: 1580 W SAN BERNARDINO RD STE B
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

13	1 of 2	NW	0.06 / 317.38	449.61 / -4	BILLS PRECISION GRINDING 1580 L W SAN BERNARDINO RD COVINA CA 91722	RCRA SQG

EPA Handler ID: CAD982487910
Gen Status Universe: Small Quantity Generator
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 1580 L W SAN BERNARDINO RD , , COVINA , CA, 91722 , US
Contact Phone No and Ext: 818-331-6522
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Other
Receive Date: 19900416

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19900416
Handler Name: BILLS PRECISION GRINDING
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: YR INDUSTRIES
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Notification
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Notification
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

13	2 of 2	NW	0.06 / 317.38	449.61 / -4	BILLS PRECISION GRINDING 1580 L W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110002828414
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-2000 00:00:00
Update Date: 29-DEC-2014 09:00:23
Interest Types: SQG
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: REGION09
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374053011009
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.090045
Longitude: -117.938268
Reference Point: PLANT ENTRANCE (GENERAL)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 150
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002828414
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
14	1 of 1	NW	0.07 / 391.72	452.43 / -1	SOUTHERN CALIFORNIA EDISON 1551 SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110065861810
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-2015 15:45:04
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.088982
Longitude: -117.921881
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065861810
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
15	1 of 1	NW	0.08 / 438.27	448.55 / -5	1600 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 025504
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034972
File Name: WEBER BAKING CO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
16	1 of 1	WNW	0.06 / 312.93	444.38 / -9	E-Z GAS 120 N VINCENT AVE COVINA CA 91722	DELISTED TNK

Delisted Storage Tanks

Facility ID: 33081
County: Los Angeles
Permitting Agency: LOS ANGELES COUNTY
Original Source: UST
Record Date: 30-JAN-2017
Latitude: 34.0882079
Longitude: -117.923691

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
17	1 of 1	WNW	0.10 / 553.75	447.98 / -5	1611 E SAN BERNARDINO RD #E COVINA CA 91722	LA HMS

Site No: 025508
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034977
File Name: ACE AUTOMOTIVE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
18	1 of 5	ENE	0.08 / 447.89	464.43 / 11	TEXACO 61-106-0191 (FORMER) 1313 SAN BERNARDINO RD COVINA CA 91722	LUST

Global ID: T0603704212
Status: COMPLETED - CASE CLOSED
Status Date: 1996-10-11 00:00:00
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites from GeoTracker Search; LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download
County: LOS ANGELES
Latitude: 34.0884191
Longitude: -117.9169881

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: I-14823
Local Case No:
Begin Date: 1990-02-13 00:00:00
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Local Agency: LOS ANGELES COUNTY
CUF Case: YES
Potential Media of Concern: Soil
How Discovered Description:
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
DWR GW Subbasin Name: San Gabriel Valley (4-013)
Disadvantaged Community:
Site History:
Potential COC: Gasoline
How Discovered:
Stop Method:
Stop Description:
Case Worker: YR
File Location:

Regulatory Activity

Action Type: Other
Date : 1990-02-13 00:00:00
Action: Leak Reported

Regulatory Contacts

Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
City: ALHAMBRA
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
Email: jawujo@dpw.lacounty.gov
Phone No: 6264583507

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
City: Los Angeles
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
Email: yrong@waterboards.ca.gov
Phone No:

Status History

Status: Completed - Case Closed
Status Date: 1996-10-11 00:00:00

Status: Open - Site Assessment
Status Date: 1990-03-06 00:00:00

Status: Open - Case Begin Date
Status Date: 1990-02-13 00:00:00

LUST Sites from GeoTracker Search - Regulatory Profile(as of Oct 31, 2019)

Site Facility Name: TEXACO 61-106-0191 (FORMER)
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig: D
CUF Amount Paid: $393,742
File Location:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 1313 SAN BERNARDINO RD
City: COVINA
Zip: 91722
County: LOS ANGELES
CUF Claim: 10008
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603704212
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 10/11/1996
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603704212&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Gabriel Valley (4-013)
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: LOS ANGELES RWQCB (REGION 4) (LEAD) - CASE #: I-14823
CASEWORKER: YUE RONG
LOS ANGELES COUNTY
CASEWORKER: JOHN AWUJO
Gndwater Monitoring Freque:
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History(as of Oct 31, 2019)

Status: Completed - Case Closed
Date : 10/11/1996

Status: Open - Site Assessment
Date : 3/6/1990

Status: Open - Case Begin Date

Date : 2/13/1990

LUST Sites from GeoTracker Search - Regulatory Activities(as of Oct 31, 2019)

Action Type: Leak Action
Action Date: 2/13/1990
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Documents(as of Oct 31, 2019)

Document Type: Site Documents ***Size :*** 118 KB
Document Date: 12/18/1996* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: WELL DESTRUCTION REPORT ***Submitted:***
Title: SUMMARY OF WELL ABANDONMENT AND SITE RESTORATION ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2982614874/T0603704212.PDF

Document Type: Site Documents ***Size :*** 65 KB
Document Date: 10/11/1996* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: CORRESPONDENCE ***Submitted:***
Title: NFA LETTER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7938135504/T0603704212.PDF

Document Type: Site Documents ***Size :*** 665 KB
Document Date: 9/9/1996* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: SITE ASSESSMENT REPORT ***Submitted:***
Title: SUMMARY OF SITE ASSESSMENT/REMEDIATION ACTIVITIES AND ENVIRONMENTAL SITE CLOSURE EVALUATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1711311101/T0603704212.PDF

Document Type: Monitoring Reports ***Size :*** 49 KB
Document Date: 3/31/1995* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: 1ST QUARTER 1995 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7991991043/T0603704212.PDF

Document Type: Site Documents ***Size :*** 2,094 KB
Document Date: 3/16/1995* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: SOIL AND WATER INVESTIGATION REPORT ***Submitted:***
Title: REPORT OF CONFIRMATION SOIL BORING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6289636969/T0603704212.PDF

Document Type: Monitoring Reports ***Size :*** 1,628 KB
Document Date: 1/30/1995* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: 4TH QUARTER 1994 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9441473424/T0603704212.PDF

Document Type: Site Documents ***Size :*** 75 KB
Document Date: 12/19/1994* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: REVIEW AND RESPONSE ***Submitted:***
Title: RESPONSE TO WORK PLAN FOR SOIL BORING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5149942755/T0603704212.PDF

Document Type: Monitoring Reports ***Size :*** 65 KB
Document Date: 11/15/1994* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: 3RD QUARTER 1994 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7897760748/T0603704212.PDF

Document Type: Site Documents ***Size :*** 1,170 KB
Document Date: 11/14/1994* ***Submitted By:*** PINNACLE EMS (CONTRACTOR)
Type: SOIL AND WATER INVESTIGATION ***Submitted:***

WORKPLAN
Title: WORK PLAN FOR CONFIRMATION SOIL BORING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1817503511/T0603704212.PDF

Document Type: Site Documents **Size :** 146 KB
Document Date: 6/1/1994* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: MARCH THROUGH APRIL 1994 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2558542609/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 96 KB
Document Date: 5/10/1994* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1ST QUARTER 1994 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2549337804/T0603704212.PDF

Document Type: Site Documents **Size :** 136 KB
Document Date: 3/25/1994* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: FEBRUARY 1994 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8872106969/T0603704212.PDF

Document Type: Site Documents **Size :** 262 KB
Document Date: 2/9/1994* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: JANUARY 1994 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1425714850/T0603704212.PDF

Document Type: Site Documents **Size :** 133 KB
Document Date: 1/28/1994* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: NOVEMBER THROUGH DECEMBER 1993 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9369104743/T0603704212.PDF

Document Type: Site Documents **Size :** 46 KB
Document Date: 11/24/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: REVIEW AND RESPONSE **Submitted:**
Title: REVIEW OF THIRD QUARTER REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3269770026/T0603704212.PDF

Document Type: Site Documents **Size :** 533 KB
Document Date: 11/10/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: APRIL THROUGH OCTOBER 1993 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4472769200/T0603704212.PDF

Document Type: Site Documents **Size :** 60 KB
Document Date: 11/2/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: REVIEW AND RESPONSE **Submitted:**
Title: REVIEW OF SECOND QUARTER REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1855818331/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 98 KB
Document Date: 10/25/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 3RD QUARTER 1993 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4516191482/T0603704212.PDF

Document Type: Site Documents **Size :** 967 KB
Document Date: 9/24/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: PRELIMINARY SITE ASSESSMENT REPORT **Submitted:**
Title: REPORT OF PRELIMINARY CONFIRMATION SOIL BORING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7971046209/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 97 KB
Document Date: 9/20/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2ND QUARTER 1993 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6599647223/T0603704212.PDF

Document Type: Site Documents **Size :** 51 KB
Document Date: 4/29/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: REVIEW OF VAPOR EXTRACTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4811998367/T0603704212.PDF

Document Type: Site Documents **Size :** 113 KB
Document Date: 3/9/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: FEBRUARY 1993 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6675394415/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 265 KB
Document Date: 2/22/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - OTHER **Submitted:**
Title: VADOSE MONITORING WELL ABANDONMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7540426671/T0603704212.PDF

Document Type: Site Documents **Size :** 115 KB
Document Date: 2/10/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: JANUARY 1993 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1283991217/T0603704212.PDF

Document Type: Site Documents **Size :** 38 KB
Document Date: 2/8/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: REVIEW OF VAPOR EXTRACTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6462958633/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 131 KB
Document Date: 1/21/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 4TH QUARTER 1992 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7667734503/T0603704212.PDF

Document Type: Site Documents **Size :** 98 KB
Document Date: 1/12/1993* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: DECEMBER 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2472563326/T0603704212.PDF

Document Type: Site Documents **Size :** 93 KB
Document Date: 12/16/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: NOVEMBER 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5143363296/T0603704212.PDF

Document Type: Site Documents **Size :** 97 KB
Document Date: 11/30/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: OCTOBER 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6392771124/T0603704212.PDF

Document Type: Monitoring Reports **Size :** 58 KB
Document Date: 10/20/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 3RD QUARTER 1992 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4343267858/T0603704212.PDF

Document Type: Site Documents **Size :** 96 KB
Document Date: 10/16/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: SEPTEMBER 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7687873601/T0603704212.PDF

Document Type: Site Documents **Size :** 104 KB
Document Date: 9/23/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)

Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: AUGUST 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5576887667/T0603704212.PDF

Document Type: Site Documents **Size :** 103 KB
Document Date: 8/14/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: JULY 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4733007848/T0603704212.PDF

Document Type: Site Documents **Size :** 58 KB
Document Date: 8/13/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: 2ND QUARTER 1992 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2064291417/T0603704212.PDF

Document Type: Site Documents **Size :** 97 KB
Document Date: 7/17/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: JUNE 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7737657546/T0603704212.PDF

Document Type: Site Documents **Size :** 379 KB
Document Date: 6/30/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: EVALUATION / ASSESSMENT MONITORING PROGRAM (EMP/AMP) **Submitted:**
Title: VAPOR EXTRACTION SYSTEM EVALUATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4694422125/T0603704212.PDF

Document Type: Site Documents **Size :** 94 KB
Document Date: 6/18/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: MAY 1992 VAPOR EXTRACTION SYSTEM STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6270548224/T0603704212.PDF

Document Type: Site Documents **Size :** 101 KB
Document Date: 5/15/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: APRIL 1992 MONTHLY STATUS REPORT & VAPOR EXTRACTION SYSTEM OPERATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4508066534/T0603704212.PDF

Document Type: Site Documents **Size :** 230 KB
Document Date: 4/21/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: MARCH 1992 MONTHLY STATUS REPORT & VAPOR EXTRACTION SYSTEM OPERATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6877668917/T0603704212.PDF

Document Type: Site Documents **Size :** 81 KB
Document Date: 3/10/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: FEBRUARY 1992 MONTHLY STATUS REPORT & VAPOR EXTRACTION SYSTEM OPERATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7437868118/T0603704212.PDF

Document Type: Site Documents **Size :** 82 KB
Document Date: 2/18/1992* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: JANUARY 1992 MONTHLY STATUS REPORT & VAPOR EXTRACTION SYSTEM OPERATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5645285069/T0603704212.PDF

Document Type: Site Documents **Size :** 180 KB
Document Date: 10/14/1991* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: UPDATE OF ENVIRONMENTAL REMEDIATION ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7626623749/T0603704212.PDF

Document Type: Site Documents **Size :** 746 KB
Document Date: 6/6/1990* **Submitted By:** PINNACLE EMS (CONTRACTOR)
Type: SITE ASSESSMENT REPORT **Submitted:**
Title: AMENDMENT TO SITE ASSESSMENT REPORT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4182585299/T0603704212.PDF

Document Type: Site Documents
Size : 34 KB
Document Date: 2/9/1990*
Submitted By: PINNACLE EMS (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS
Submitted:
Title: JANUARY 1992 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8303152501/T0603704212.PDF

Document Type: Site Documents
Size : 209 KB
Document Date: 2/2/1990*
Submitted By: PINNACLE EMS (CONTRACTOR)
Type: FINAL REMEDIAL ACTION REPORT / CORRECTIVE ACTION REPORT
Submitted:
Title: VAPOR EXTRACTION WELLS CORRECTIVE ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6865134954/T0603704212.PDF

Document Type: Site Documents
Size : 4,650 KB
Document Date: 7/15/1989*
Submitted By: PINNACLE EMS (CONTRACTOR)
Type: SITE ASSESSMENT REPORT
Submitted:
Title: SITE ASSESSMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4347116827/T0603704212.PDF

Document Type: Site Documents
Size : 44 KB
Document Date: 3/29/1989*
Submitted By: PINNACLE EMS (CONTRACTOR)
Type: SITE ASSESSMENT REPORT
Submitted:
Title: ENVIRONMENTAL SITE ASSESSMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1334550857/T0603704212.PDF

18	2 of 5	ENE	0.08 / 447.89	464.43 / 11	1313 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 014283
Area: 6B

Detail Info

Permit No:
Permit Status Code:
Permit Cat Desc:
Permit Category:
Status Code: OPEN
File No: 014823
Status Desc: File Opened, no permit exists
File Name: TEXACO SERVICE STATION
Permit Status Desc:
Permit Type:
Permit Type Desc:

18	3 of 5	ENE	0.08 / 447.89	464.43 / 11	TEXACO 1313 W. SAN BERNARDINO COVINA CA 91722	HHSS

County: Los Angeles
Pdf File Url: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028aed.pdf

---

18	4 of 5	ENE	0.08 / 447.89	464.43 / 11	TEXACO 61-106-0191 (FORMER) 1313 SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110065573016
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-2015 11:51:33
Update Date:
Interest Types: STATE MASTER

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.088412
Longitude:	-117.916892
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065573016
Program Acronyms:	

18	5 of 5	ENE	0.08 / 447.89	464.43 / 11	TEXACO 1313 W. SAN BERNARDINO COVINA CA	HIST TANK

Owner Name:	TEXACO U.S.A.	**No of Containers:**	4
Owner Street:	P.O. BOX 3756 3350 WILSHIRE BL	**County:**	LOS ANGELES
Owner City:	LOS ANGELES	**Facility State:**	CA
Owner State:	CA	**Facility Zip:**	91722
Owner Zip:	90010		

19	1 of 1	WNW	0.13 / 664.32	446.36 / -7	ALMAC PRECISION MANUFACTURING, INC. 1633 WEST SAN BERNARDINO ROAD, UNIT B COVINA CA 91722	FINDS/FRS

Registry ID:	110070621120
FIPS Code:	
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	06-OCT-2019 23:09:48
Update Date:	
Interest Types:	ICIS-NPDES UNPERMITTED
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070621120
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	1 of 6	WNW	0.13 / 684.07	445.93 / -8	1635 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 025512
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034981
File Name: BEST BUY TIRE SHOP

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	2 of 6	WNW	0.13 / 684.07	445.93 / -8	TRANSMASTER TRANSMISSION INC 1635 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110065577227
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-2015 11:55:11
Update Date:
Interest Types: STATE MASTER
SIC Codes: 7537
SIC Code Descriptions: AUTOMOTIVE TRANSMISSION REPAIR SHOPS
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012003
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08985
Longitude: -117.92392
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065577227
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	3 of 6	WNW	0.13 / 684.07	445.93 / -8	TRANSMASTER TRANSMISSION INC 1635 W SAN BERNARDINO RD COVINA CA 91722	CERS HAZ

Site ID: 163203
Latitude: 34.090019
Longitude: -117.939239
County: Los Angeles County

Regulated Programs

EI ID: 10293928 **EI Description:** Chemical Storage Facilities

EI ID: 10293928 **EI Description:** Hazardous Waste Generator

Violations

Violation Date: 03/05/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Los Angeles County Fire Department
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Notes:

Returned to compliance on 05/30/2018. OBSERVATION: The business failed to electronically submit and certify that the business plan is complete, accurate, and in compliance with EPCRA on or before the annual due date. CORRECTIVE ACTION: Electronically submit and certify that the business plan is complete, accurate, and in compliance with EPCRA on or before the annual due date of March 15th of each year. Your hazardous materials inventory submitted on 3/30/2017 was not accepted due to inaccurate information on the average daily amount & maximum daily amount on waste oil. Add the 120-gallon Transmission Fluid in the inventory.

Violation Description:

Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

Evaluations

Eval Date: 03/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

RICARDO VARGAS NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/05/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

RICARDO VARGAS; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/01/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency

Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/01/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 05/30/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Identification Signer
Entity Name: Ricardo Vargas
Entity Title: Owner
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: Action Waste Oil
Entity Title:
Address: 5917 Oak Ave #332
City: Temple City
State: CA
Country:
Zip Code: 91780
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1635 W San Bernadino Rd
City: Covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: Transmaster Tranmission Inc.
Entity Title:
Address: 1635 W. San Bernardino Rd.
City: Covina
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 915-2328

Affil Type Desc: Operator
Entity Name: Transmaster Tranmission
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 915-2328

Affil Type Desc: Parent Corporation
Entity Name: TRANSMASTER TRANSMISSION INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HWG	***Longitude:***	-117.939240
Program ID:	10293928	***Coord Name:***	
Latitude:	34.090020	***Ref Point Type Desc:***	Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	4 of 6	WNW	0.13 / 684.07	445.93 / -8	TRANSMASTERS TRANSMISSION 1635 W SAN BERNARDINO RD COVINA CA 91722-3409	RCRA NON GEN

EPA Handler ID: CAL000366815
Gen Status Universe: No Report
Contact Name: RICARDO VARGAS
Contact Address: 1635 W SAN BERNARDINO RD , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-915-2328
Contact Email: MARVACINC@GMAIL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20110818

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No

Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20110818
Handler Name:	TRANSMASTERS TRANSMISSION
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	TRANSMASTERS TRANSMISSION
Name:	TRANSMASTERS TRANSMISSION	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-915-2328	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722-0000

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1635 W SAN BERNARDINO RD
Name:	RICARDO VARGAS	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-915-2328	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	5 of 6	WNW	0.13 / 684.07	445.93 / -8	TRANSMASTERS TRANSMISSION 1635 W SAN BERNARDINO RD COVINA CA 91722-3409	FINDS/FRS

Registry ID:	110070477261
FIPS Code:	06037
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	02-JAN-2019 20:59:27
Update Date:	
Interest Types:	TRANSPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	811113
NAICS Code Descriptions:	AUTOMOTIVE TRANSMISSION REPAIR.
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070477261
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	6 of 6	WNW	0.13 / 684.07	445.93 / -8	TRANSMASTER TRANSMISSION INC 1635 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0023033
CERS ID: 10293928

Active Facility Details

PE: 3000

PE: 1001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	1 of 8	WNW	0.14 / 735.01	445.43 / -8	SERVICE PRO AUTOMOTIVE 1647 W SAN BERNARDINO RD COVINA CA 91722	RCRA SQG

EPA Handler ID: CAD983658246
Gen Status Universe: Small Quantity Generator
Contact Name: ED AVILA
Contact Address: 1647 W SAN BERNARDINO RD , , COVINA , CA, 91722 , US
Contact Phone No and Ext: 818-332-4780
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Private
Receive Date: 19930129

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Sequence No: 1
Receive Date: 19930129
Handler Name: SERVICE PRO AUTOMOTIVE
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: SERVICE PRO AUTOMOTIVE
Date Became Current:
Date Ended Current:
Phone: 818-332-4780
Source Type: Notification

Street No:
Street 1: 1647 W SAN BERNARDINO RD
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	2 of 8	WNW	0.14 / 735.01	445.43 / -8	SERVICE PRO AUTOMOTIVE 1647 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110002891826
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-2000 00:00:00
Update Date: 26-JAN-2012 13:04:49
Interest Types: SQG
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08932
Longitude: -117.924013
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002891826
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	3 of 8	WNW	0.14 / 735.01	445.43 / -8	1647 W SAN BERNARDINO RD WEST COVINA CA 91722	LA HMS

Site No: 018851
Area: 6C

Detail Info

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 027024
File Name: DAVID DEMING AUTO REPAIR

21	4 of 8	WNW	0.14 / 735.01	445.43 / -8	**5 STARZ AUTO REPAIR & ELECTRIC** **1647 W SAN BERNARDINO RD** **COVINA CA 91722**	FINDS/FRS

Registry ID: 110066745142
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 14-OCT-2015 12:50:03
Update Date:
Interest Types: STATE MASTER, TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 811111
NAICS Code Descriptions: GENERAL AUTOMOTIVE REPAIR.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08932
Longitude: -117.924013
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066745142
Program Acronyms:

21	5 of 8	WNW	0.14 / 735.01	445.43 / -8	**5 STARZ AUTO REPAIR & ELECTRIC** **1647 W SAN BERNARDINO RD** **COVINA CA 91722**	CERS HAZ

Site ID: 713
Latitude: 34.057700
Longitude: -118.240940
County: Los Angeles County

Regulated Programs

EI ID: 10308433 **EI Description:** Hazardous Waste Generator

EI ID: 10308433 **EI Description:** Chemical Storage Facilities

EI ID: 10308433 **EI Description:** Hazardous Waste Onsite Treatment

Evaluations

Eval Date: 08/01/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 03/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

RAFI JAHZIAN NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

RAFI JAHZIAN NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/01/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: rafi jahzian
Entity Title:
Address: 1647 w san bearnardino rd
City: covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: rafi jahzian
Entity Title:
Address: 1647 w san bearnardino rd
City: covina
State: CA
Country: United States
Zip Code: 91722
Phone: (818) 640-2177

Affil Type Desc: Operator
Entity Name: rafi jahzian
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (818) 640-2177

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1647 w san bearnardino rd
City: covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Identification Signer
Entity Name: jahzian jahzian
Entity Title: Mr
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Document Preparer
Entity Name: jahzian jahzian
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: 5 STARZ AUTO REPAIR & ELECTRIC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HWG	***Longitude:***	-117.939451
Program ID:	10308433	***Coord Name:***	
Latitude:	34.090028	***Ref Point Type Desc:***	Unknown

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	6 of 8	WNW	0.14 / 735.01	445.43 / -8	FIVE STARZ AUTO REPAIR AND ELECTRIC 1647 W SAN BERNARDINO RD COVINA CA 91722	RCRA NON GEN

EPA Handler ID: CAL000372001
Gen Status Universe: No Report
Contact Name: MARIA AUAKIAN
Contact Address: 1647 W SAN BERNARDINO RD , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-966-1144
Contact Email: FIVESTARZAUTO@OUTLOOK.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20120227

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20120227
Handler Name: FIVE STARZ AUTO REPAIR AND ELECTRIC
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: RAFI JAHEZIAN
Date Became Current:
Date Ended Current:
Phone: 818-640-8177
Source Type: Implementer
Street No:
Street 1: 1647 W SAN BERNARDINO RD
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722-0000

Owner/Operator Ind: Current Operator
Type: Other
Name: MARIA AUAKIAN
Date Became Current:
Date Ended Current:
Phone: 626-966-1144
Street No:
Street 1: 1647 W SAN BERNARDINO RD
Street 2:
City: COVINA
State: CA
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:	Implementer			Zip Code:	91722	
21	7 of 8	WNW	0.14 / 735.01	445.43 / -8	5 STARZ AUTO REPAIR & ELECTRIC 1647 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0023061
CERS ID: 10308433

Active Facility Details

PE: 3001

PE: 1000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	8 of 8	WNW	0.14 / 735.01	445.43 / -8	L & F REPAIR 1647 W SAN BERNARDINO RD A COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0036682
CERS ID: 0

Inactive Facility Details

PE: 3001

PE: 1001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
22	1 of 4	E	0.11 / 573.90	463.44 / 10	KINDRED HOSPITAL-SAN GABRIEL VALLEY 845 N LARK ELLEN AVE WEST COVINA CA 91791	FINDS/FRS

Registry ID: 110065539858
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-2015 11:17:22
Update Date:
Interest Types: STATE MASTER, TRANSPORTER
SIC Codes: 8062
SIC Code Descriptions: GENERAL MEDICAL AND SURGICAL HOSPITALS
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374056001000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08706
Longitude: -117.91724
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065539858
Program Acronyms:

CA-ENVIROVIEW:41730, RCRAINFO:CAL000405172

22	2 of 4	E	0.11 / 573.90	463.44 / 10	KINDRED HOSPITAL-SAN GABRIEL VALLEY 845 N LARK ELLEN AVE WEST COVINA CA 91791	CERS HAZ

Site ID: 41730
Latitude: 34.087070
Longitude: -117.917240
County: Los Angeles County

Regulated Programs

EI ID: 10276006 ***EI Description:*** Chemical Storage Facilities

Violations

Violation Date: 08/04/2015 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 11/20/2015. OBSERVATION: The annotated site map submitted to the CUPA does not include [LIST MISSING ELEMENTS]. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Evaluations

Eval Date: 02/26/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

CHRISTIAN CRUZ; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/04/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

VICTOR REYES,PLANT DIRECTOR; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/22/2015
Violations Found: No
Eval General Type: Other/Unknown

Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

CERS submitted.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Identification Signer
Entity Name: Victor Reyes
Entity Title: Chief Enginner
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: DIRECT ENV SER
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (562) 944-1900

Affil Type Desc: Parent Corporation
Entity Name: KINDRED HOSPITAL-SAN GABRIEL VALLEY
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: KINDRED HEALTH CARE
Entity Title:
Address: 845 N LARK ELLEN AVE
City: WEST COVINA
State: CA
Country: United States
Zip Code: 91791
Phone: (502) 596-7300

Affil Type Desc: Environmental Contact
Entity Name: Victor Reyes
Entity Title:
Address: 845 N. Lark Ellen Ave.
City: West Covina
State: CA
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Zip Code: 91791
Phone:

Affil Type Desc: Document Preparer
Entity Name: Victor Reyes
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 845 N LARK ELLEN AVE
City: WEST COVINA
State: CA
Country:
Zip Code: 91791
Phone:

22	3 of 4	E	0.11 / 573.90	463.44 / 10	KINDRED HOSPITAL SAN GABRIEL VALLEY 845 N LARK ELLEN AVE WEST COVINA CA 91791	RCRA NON GEN

EPA Handler ID: CAL000405172
Gen Status Universe: No Report
Contact Name: EARL NICHOLSON
Contact Address: 14900 IMPERIAL HWY , , LA MIRADA , CA, 90638-0000 ,
Contact Phone No and Ext: 562-777-3636
Contact Email: EARL.NICHOLSON@KINDRED.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20150312

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Sequence No: 1
Receive Date: 20150312
Handler Name: KINDRED HOSPITAL SAN GABRIEL VALLEY
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: KINDRED HEALTHCARE
Date Became Current:
Date Ended Current:
Phone: 502-596-7300
Source Type: Implementer

Street No:
Street 1: 680 SOUTH 4TH STREET
Street 2:
City: LOUISVILLE
State: KY
Country:
Zip Code: 40202-0000

Owner/Operator Ind: Current Operator
Type: Other
Name: EARL NICHOLSON
Date Became Current:
Date Ended Current:
Phone: 562-777-3636
Source Type: Implementer

Street No:
Street 1: 14900 IMPERIAL HWY
Street 2:
City: LA MIRADA
State: CA
Country:
Zip Code: 90638-0000

22	4 of 4	E	0.11 / 573.90	463.44 / 10	KINDRED HOSPITAL-SAN GABRIEL VALLEY 845 N LARK ELLEN AVE WEST COVINA CA 91791	LA COUNTY CUPA

Facility ID: FA0015747
CERS ID: 10276006

Active Facility Details

PE: 3003

Inactive Facility Details

PE: 1003

23	1 of 2	WNW	0.13 / 697.70	443.41 / -10	EARL SCHEIB OF COVINA 1656 SAN BERNARDINO RD COVINA CA 91722	CERS HAZ

Site ID: 27102
Latitude: 34.089020
Longitude: -117.924660
County: Los Angeles County

Regulated Programs

EI ID: 10308439
EI Description: Hazardous Waste Generator

Violations

Violation Date: 04/26/2017
Violation Program: HW
Violation Source: CERS
Violation Division: Los Angeles County Fire Department
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Notes:

Violation Description:

Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violations

Violation Date: 04/26/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Notes:

Returned to compliance on 06/20/2017. OBSERVATION: The generator has not obtained an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have obtained an EPA ID number.

Violation Description:

Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violations

Violation Date: 04/26/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Notes:

Returned to compliance on 06/01/2017.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms.
(2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f).
(3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violations

Violation Date: 03/10/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Notes:

Returned to compliance on 03/13/2014.

Violation Description:

Failure to properly dispose of hazardous waste at an authorized location.

Violations

Violation Date: 04/26/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Notes:

Returned to compliance on 06/20/2017. OBSERVATION: Uniform Hazardous Waste Manifests for waste paint/solvent were not available at the time of inspection. CORRECTIVE ACTION: Locate a copy of all manifests for waste paint/solvent and submit copies to the CUPA.

Violation Description:

Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil:
1) The name and address of the used oil recycling facility or
generator claiming the oil meets the requirements of HSC 6.5 25250.1.

2) The name and address of the facility receiving the shipment.
3) The quantity of oil delivered.
4) The date of shipment or delivery.
5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.

Evaluations

Eval Date: 04/26/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Ron Shideh, owner; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/01/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 03/10/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/14/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/20/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Parent Corporation
Entity Name: EARL SCHEIB OF COVINA
Entity Title:
Address:
City:
State:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Operator
Entity Name: RON SHIDEH
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (818) 802-9362

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1656 SAN BERNARDINO ROAD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Document Preparer
Entity Name: GREGORY LEWIS
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: RON JAMALI
Entity Title:
Address: 1656 san bernardino rd
City: covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: MARY SHIDEH INC
Entity Title:
Address: 1656 SAN BERNARDINO ROAD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (818) 802-9362

23	2 of 2	WNW	0.13 / 697.70	443.41 / -10	EARL SCHEIB OF COVINA 1656 SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID: FA0023035
CERS ID: 10308439

Active Facility Details

PE: 1001

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
24	1 of 1	ENE	0.11 / 558.19	465.41 / 12	535 LARK ELLEN AVENUE COVINA CA 91722	CDL

Clue: 2002-01-216
Date: 1/31/2002
County: LOS ANGELES
Lab Type: A
Lab Type Description: Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
25	1 of 4	WNW	0.15 / 788.60	444.40 / -9	EARL SCHEIB INCORPORATED 1656 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110013830621
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 02-APR-2003 17:25:36
Update Date: 01-JUN-2017 17:17:18
Interest Types: AIR EMISSIONS CLASSIFICATION UNKNOWN, STATE MASTER
SIC Codes: 7532
SIC Code Descriptions: TOP, BODY, AND UPHOLSTERY REPAIR SHOPS AND PAINT SHOPS
NAICS Codes: 811121
NAICS Code Descriptions: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.0894
Longitude: -117.92451
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110013830621
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
25	2 of 4	WNW	0.15 / 788.60	444.40 / -9	1656 W SAN BERNARDINO RD	LA HMS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					COVINA CA 91722	

Site No: 025515
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 034985
File Name: EARL SCHEIB OF CALIF INC

25	3 of 4	WNW	0.15 / 788.60	444.40 / -9	EARL SCHEIB INCORPORATED 1656 W SAN BERNARDINO RD COVINA CA 91722	EMISSIONS

1990 Criteria Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 3
ROGT: 2.7104
COT:
NOXT:
SOXT:
PMT:
PM10T:

1990 Toxic Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1993 Criteria Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 2.4
ROGT: 2.3232
COT:
NOXT:
SOXT:
PMT:
PM10T:

1993 Toxic Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

1995 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	2.4
CO:	19	***ROGT:***	2.3232
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1995 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1997 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	1.718
CO:	19	***ROGT:***	1.5363856
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1997 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1998 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	1.718
CO:	19	***ROGT:***	1.5363856
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1998 Toxic Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1999 Criteria Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 1.718
ROGT: 1.5363856
COT:
NOXT:
SOXT:
PMT:
PM10T:

1999 Toxic Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2000 Criteria Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 1.718
ROGT: 1.54
COT:
NOXT:
SOXT:
PMT:
PM10T:

2000 Toxic Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Criteria Data

Facility ID: 24365
Facility SIC Code: 7538
CO: 19
Air Basin: SC
CERR Code:
TOGT: 4.86
ROGT: 4.23
COT:

District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2001 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2002 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	2.74801
CO:	19	***ROGT:***	2.714759079
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2002 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2003 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	2.74701
CO:	19	***ROGT:***	2.7
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2003 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2008 Criteria Data

Facility ID:	24365	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	1.28734689745925700981880757161656038061
CO:	19	***ROGT:***	1.27177
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2008 Toxic Data

Facility ID:	24365	***COID:***	LA
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
25	*4 of 4*	*WNW*	*0.15 / 788.60*	*444.40 / -9*	***MARY SCHEIDEH INC*** ***1656 W SAN BERNARDINO RD*** ***COVINA CA 91722***	***EMISSIONS***

2015 Toxic Data

Facility ID:	165050	***COID:***	LA
Facility SIC Code:	7535	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Toxic Data

Facility ID:	165050	***TS:***	
Facility SIC Code:	7535	***HRA:***	
CERR CODE:		***CH Index:***	
COID:	LA	***AH Index:***	
CO:	19	***Air Basin:***	SC
DISN:	SOUTH COAST AQMD	***District:***	SC
CHAPIS:			

2017 Toxic Data

Facility ID:	165050	***COID:***	LA
Facility SIC Code:	7535	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	1 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS & LAUNDRY 1641 WEST SAN BERNANDINO BL WEST COVINA CA 917220000	DRYCLEANERS

EPA ID:	CAL000033041	**Owner Phone:**	0000000000
Create Date:	5/10/1990	**Owner Fax:**	
Facility Act Ind:	No	**Contact Name:**	DEACT PER 95 FEE FORM -P.H.
Inact Date:	6/30/1995	**Contact Street 1:**	--
Reason:	Cleaners	**Contact Street 2:**	
County Name:	Los Angeles	**Contact City:**	--
Region Code:	3	**Contact State:**	99
Owner Name:	DURR GHASSAN F	**Contact Zip:**	--
Owner Street 1:	--	**Contact Phone:**	--
Owner Street 2:		**Mail Name:**	
Owner City:	--	**DD Latitude:**	34.089314
Owner State:	99	**DD Longitude:**	-117.923993
Owner Zip:	--		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	2 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS & LAUNDRY 1641 WEST SAN BERNANDINO BLVD WEST COVINA CA 917220000	DRYCLEANERS

EPA ID:	CAL000046879	**Owner Phone:**	6263321889
Create Date:	2/15/1991	**Owner Fax:**	0000000000
Facility Act Ind:	No	**Contact Name:**	GHASSAN DURR CO-OWNER
Inact Date:	6/30/2015	**Contact Street 1:**	1641 WEST SAN BERNANDINO BLVD
Reason:	SIC/NAICS	**Contact Street 2:**	
County Name:	Los Angeles	**Contact City:**	WEST COVINA
Region Code:	3	**Contact State:**	CA
Owner Name:	GHASSAN & ABLA DURR	**Contact Zip:**	917220000
Owner Street 1:	1641 W SAN BERNARDINO RD	**Contact Phone:**	6263321889
Owner Street 2:		**Mail Name:**	
Owner City:	COVINA	**DD Latitude:**	34.089342
Owner State:	CA	**DD Longitude:**	-117.924174
Owner Zip:	917220000		

NAICS Details

NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	3 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 917220000	DRYCLEANERS

EPA ID:	CAL000016961	**Owner Phone:**	0000000000
Create Date:	11/14/1989	**Owner Fax:**	
Facility Act Ind:	No	**Contact Name:**	DEACT PER 95 FEE FORM -P.H.
Inact Date:	6/30/1995	**Contact Street 1:**	--
Reason:	Cleaners	**Contact Street 2:**	
County Name:	Los Angeles	**Contact City:**	--
Region Code:	3	**Contact State:**	99
Owner Name:	DURR GHASSAN	**Contact Zip:**	--
Owner Street 1:	--	**Contact Phone:**	--
Owner Street 2:		**Mail Name:**	
Owner City:	--	**DD Latitude:**	34.089314
Owner State:	99	**DD Longitude:**	-117.923993
Owner Zip:	--		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	4 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID:	110066073117
FIPS Code:	
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	14-OCT-2015 09:45:39
Update Date:	
Interest Types:	STATE MASTER
SIC Codes:	7216
SIC Code Descriptions:	DRYCLEANING PLANTS, EXCEPT RUG CLEANING
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012003
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.08971
Longitude:	-117.92425
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066073117
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	5 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS & LAUNDRY 1641 W SAN BERNARDINO RD COVINA CA 91722	EMISSIONS

1993 Criteria Data

Facility ID:	11850	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	2.6
CO:	19	**ROGT:**	0
Air Basin:	SC	**COT:**	0
District:	SC	**NOXT:**	0
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

1993 Toxic Data

Facility ID:	11850	**COID:**	LA
Facility SIC Code:	7216	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1995 Criteria Data

Facility ID:	11850	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	2.6
CO:	19	***ROGT:***	0
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	0
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

1995 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1996 Criteria Data

Facility ID:	11850	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	
CO:	19	***ROGT:***	
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	0
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1996 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1998 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1999 Toxic Data

Facility ID:	11850	***COID:***	LA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2000 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2001 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	*6 of 11*	*WNW*	*0.16 / 842.08*	*445.60 / -8*	***SOCIETY CLEANERS & LAUNDRY, MR*** ***1641 W SAN BERNARDINO RD*** ***COVINA CA 91722***	***EMISSIONS***

1990 Criteria Data

Facility ID:	11850	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	3.8
CO:	19	***ROGT:***	0
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1990 Toxic Data

Facility ID:	11850	***COID:***	LA
Facility SIC Code:	7216	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	7 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722	CERS HAZ

Site ID: 154487
Latitude: 34.090023
Longitude: -117.939345
County: Los Angeles County

Regulated Programs

EI ID: 10283425 **EI Description:** Chemical Storage Facilities

EI ID: 10283425 **EI Description:** Hazardous Waste Generator

Violations

Violation Date: 01/19/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 01/19/2018 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Notes:

Returned to compliance on 03/25/2018. OBSERVATION: Uniform Hazardous Waste Manifests for PERC were not available at the time of inspection. CORRECTIVE ACTION: Locate a copy of all manifests for PERC and submit copies to the CUPA.

Violation Description:

Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.

Violations

Violation Date: 01/19/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 01/19/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

OBSERVATION: The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. CORRECTIVE ACTION: Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violations

Violation Date: 01/19/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

OBSERVATION: The business failed to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material within 30 days.

Violation Description:

Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Evaluations

Eval Date: 03/08/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 01/19/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Jose Villa, manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/29/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Inspected by B. Nasseri, HMS II Consent by Ghassan Durv; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/19/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Jose Villa, manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/05/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

GHASSAN DURR OWNER; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/17/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/10/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

NO LONGER HM; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Legal Owner
Entity Name: PASCUAL CISNEROS
Entity Title:
Address: 1641 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 332-1889

Affil Type Desc: Document Preparer
Entity Name: Pascual Cisneros
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: PASCUAL CISNEROS
Entity Title: OWNER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: SOCIETY CLEANERS
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1641 W SAN BERNARDINO RD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Operator
Entity Name: PASCUAL CISNEROS
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 332-1889

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Environmental Contact
Entity Name: PASCUAL CISNEROS
Entity Title:
Address: 1641 W SAN BERNARDINO RD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Coordinates

Env Int Type Code:	HWG	***Longitude:***	-117.939340
Program ID:	10283425	***Coord Name:***	
Latitude:	34.090020	***Ref Point Type Desc:***	Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	8 of 11	WNW	0.16 / 842.08	445.60 / -8	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722	DRYCLEANERS

EPA ID:	CAL000434850	**Owner Phone:**	3238543571
Create Date:	4/10/2018 11:20:46 AM	**Owner Fax:**	
Facility Act Ind:	Yes	**Contact Name:**	PASCUAL CISNEROS
Inact Date:		**Contact Street 1:**	1641 W SAN BERNARDINO RD
Reason:	SIC/NAICS	**Contact Street 2:**	
County Name:	Los Angeles	**Contact City:**	COVINA
Region Code:	3	**Contact State:**	CA
Owner Name:	PASCUAL CINEROS	**Contact Zip:**	91722
Owner Street 1:	13805 LOMITAS AVE	**Contact Phone:**	3238543571
Owner Street 2:		**Mail Name:**	
Owner City:	LA PUENTE	**DD Latitude:**	0
Owner State:	CA	**DD Longitude:**	0
Owner Zip:	91746		

NAICS Details

NAICS Code:	812320
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	9 of 11	WNW	0.16 / 842.08	445.60 / -8	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722	RCRA NON GEN

EPA Handler ID:	CAL000434850
Gen Status Universe:	No Report
Contact Name:	PASCUAL CISNEROS
Contact Address:	1641 W SAN BERNARDINO RD , , COVINA , CA, 91722 ,
Contact Phone No and Ext:	323-854-3571
Contact Email:	ILIANA_TOLEDO@HOTMAIL.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20180410

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20180410
Handler Name:	ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	1641 W SAN BERNARDINO RD
Name:	PASCUAL CISNEROS	***Street 2:***	
Date Became Current:		***City:***	COVINA
Date Ended Current:		***State:***	CA
Phone:	323-854-3571	***Country:***	
Source Type:	Implementer	***Zip Code:***	91722
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	13805 LOMITAS AVE
Name:	PASCUAL CINEROS	***Street 2:***	
Date Became Current:		***City:***	LA PUENTE
Date Ended Current:		***State:***	CA
Phone:	323-854-3571	***Country:***	
Source Type:	Implementer	***Zip Code:***	91746

26	*10 of 11*	*WNW*	*0.16 / 842.08*	*445.60 / -8*	***ILIANA UNIFORM SERVICE DBA SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722***	***FINDS/FRS***

Registry ID:	110070485977
FIPS Code:	06037
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	03-JAN-2019 12:00:15
Update Date:	
Interest Types:	TRANSPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	812320
NAICS Code Descriptions:	DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED).
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070485977
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	11 of 11	WNW	0.16 / 842.08	445.60 / -8	SOCIETY CLEANERS 1641 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0023034
CERS ID: 10283425

Active Facility Details

PE: 1000

PE: 3000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
27	1 of 10	N	0.17 / 907.47	457.39 / 4	JOHN W POTTER INC 1476 W INDUSTRIAL PARK ST COVINA CA 91722	RCRA SQG

EPA Handler ID: CAD983620246
Gen Status Universe: Small Quantity Generator
Contact Name: STEVEN POTTER
Contact Address: 1476 W INDUSTRIAL PARK ST , , COVINA , CA, 91722 , US
Contact Phone No and Ext: 818-966-8433
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Private
Receive Date: 19920227

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920227
Handler Name: JOHN W POTTER INC
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Private	***Street 1:***	1476 W INDUSTRIAL PARK ST
Name:	JOHN W POTTER INC	***Street 2:***	
Date Became Current:		***City:***	COVINA
Date Ended Current:		***State:***	CA
Phone:	818-966-8433	***Country:***	
Source Type:	Notification	***Zip Code:***	91722

27	***2 of 10***	***N***	***0.17 / 907.47***	***457.39 / 4***	***JOHN W POTTER INC*** ***1476 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***FINDS/FRS***

Registry ID:	110002869959
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	13-OCT-2015 14:10:08
Interest Types:	SQG, STATE MASTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	334412
NAICS Code Descriptions:	BARE PRINTED CIRCUIT BOARD MANUFACTURING.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012003
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09127
Longitude:	-117.92063
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002869959
Program Acronyms:	

27	***3 of 10***	***N***	***0.17 / 907.47***	***457.39 / 4***	***JOHN W POTTER INC*** ***1476 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***DELISTED HAZ***

Siteid:	126559
Latitude:	34.090694
Longitude:	-117.920677
Original Source:	CHAZ
Record Date:	09-JUL-2018

27	***4 of 10***	***N***	***0.17 / 907.47***	***457.39 / 4***	***American Towers - Covina - #302244*** ***1476 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***CERS HAZ***

Site ID:	415079

Latitude: 34.090694
Longitude: -117.920677
County: Los Angeles County

Regulated Programs

EI ID: 10721083 ***EI Description:*** Chemical Storage Facilities

Evaluations

Eval Date: 12/11/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Bryan Shatswell, field technician; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: Charmayne Eriacho
Entity Title:
Address: 10 Presidential Way , ATTN: HazMat Compliance
City: Woburn
State: MA
Country:
Zip Code: 01801
Phone:

Affil Type Desc: Identification Signer
Entity Name: Shawn Lanier
Entity Title: Vice President - Legal
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: American Tower Corp.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (781) 428-7222

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 10 Presidential Way , ATTN: HazMat Compliance
City: Woburn
State: MA
Country:
Zip Code: 01801
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Property Owner
Entity Name: John W. Potter, Inc.
Entity Title:
Address: 1476 W Industrial Park St
City: Covina
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 966-8433

Affil Type Desc: Legal Owner
Entity Name: SpectraSite Communications, LLC
Entity Title:
Address: 10 Presidential Way , ATTN: HazMat Compliance
City: Woburn
State: MA
Country: United States
Zip Code: 01801
Phone: (781) 428-7222

Affil Type Desc: Document Preparer
Entity Name: Derek DeCastro
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: American Tower Corp.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HMBP	***Longitude:***	-117.920680
Program ID:	10721083	***Coord Name:***	
Latitude:	34.090690	***Ref Point Type Desc:***	Center of a facility or station.

27	***5 of 10***	***N***	***0.17 / 907.47***	***457.39 / 4***	***AT&T MOBILITY - Covina (USID101173)*** ***1476 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***CERS HAZ***

Site ID: 523883
Latitude: 34.090694
Longitude: -117.920677
County: Los Angeles County

Regulated Programs

EI ID: 10674481 ***EI Description:*** Chemical Storage Facilities

Affiliations

Affil Type Desc: Legal Owner
Entity Name: NEW CINGULAR WIRELESS PCS, LLC
Entity Title:
Address: 308 S. Akard St., 17th Floor
City: Dallas
State: TX
Country: United States
Zip Code: 75202
Phone: (214) 464-1712

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Document Preparer
Entity Name: Peter Burnell, Sigma Consultants, Inc.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: Jeremy McGrue
Entity Title: National EPCRA Manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: AT&T Mobility
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: AT&T EH&S Hotline - Option #1
Entity Title:
Address: 308 S. Akard St., 17th Floor
City: Dallas
State: TX
Country:
Zip Code: 75202
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 308 S. Akard St., 17th Floor

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

City: Dallas
State: TX
Country:
Zip Code: 75202
Phone:

Affil Type Desc: Operator
Entity Name: AT&T Mobility
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (800) 566-9347

Coordinates

Env Int Type Code: HMBP
Program ID: 10674481
Latitude: 34.090690
Longitude: -117.920680
Coord Name:
Ref Point Type Desc: Center of a facility or station.

---

27 | 6 of 10 | N | 0.17 / 907.47 | 457.39 / 4 | AMERICAN TOWERS - COVINA - #302244
1476 W INDUSTRIAL PARK ST
COVINA CA 91722 | LA COUNTY CUPA

Facility ID: FA0049029
CERS ID: 10721083

Active Facility Details

PE: 3000

---

27 | 7 of 10 | N | 0.17 / 907.47 | 457.39 / 4 | AT&T - SV0131-02 COVINA (101173)
1476 W INDUSTRIAL PARK ST
ATT
COVINA CA 91722 | LA COUNTY CUPA

Facility ID: FA0043080
CERS ID: 10674481

Inactive Facility Details

PE: 3000

---

27 | 8 of 10 | N | 0.17 / 907.47 | 457.39 / 4 | T-MOBILE WEST SITE ID# IE05404A
1476 W INDUSTRIAL PARK ST B
COVINA CA 91722 | LA COUNTY CUPA

Facility ID: FA0041179
CERS ID: 0

Inactive Facility Details

PE: 3000

---

27 | 9 of 10 | N | 0.17 / 907.47 | 457.39 / 4 | SPRINT NXTL POTTER
1476 W INDUSTRIAL PARK ST | LA COUNTY CUPA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					SPRNT COVINA CA 91722	

Facility ID: FA0038698
CERS ID: 0

Inactive Facility Details

PE: 3000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
27	10 of 10	N	0.17 / 907.47	457.39 / 4	BLUE SABER INC 1476 W INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014445
CERS ID: 10286665

Inactive Facility Details

PE: 1001

PE: 3002

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
28	1 of 4	N	0.17 / 902.02	457.42 / 4	GAMBRO INC AMERICAN MEMBRANE DIV 1450 INDUSTRIAL PARK ST COVINA CA 91722	RCRA SQG

EPA Handler ID: CAD037186269
Gen Status Universe: Small Quantity Generator
Contact Name:
Contact Address: US
Contact Phone No and Ext:
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19960901

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated November, 2019.

Violation Details

Citation:
Violation Short Description: LDR - General
Violation Type: 268.A
Violation Determined Date: 19880317
Scheduled Compliance Date:
Return to Compliance: U
Actual Return to Compl: 19890101
Violation Responsible Agency: State

Evaluation Details

Evaluation Start Date: 19880317
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Violation Short Description: LDR - General
Return to Compliance Date: 19890101

Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19810128
Handler Name: GAMBRO INC AMERICAN MEMBRANE DIV
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19960901
Handler Name: GAMBRO INC AMERICAN MEMBRANE DIV
Generator Status Universe: Small Quantity Generator
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: GAMBRO INC
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Notification
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Implementer
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Historical Handler Details

Receive Dt: 19810128
Generator Code Description: Large Quantity Generator
Handler Name: GAMBRO INC AMERICAN MEMBRANE DIV

28	2 of 4	N	0.17 / 902.02	457.42 / 4	GAMBRO INC AMERICAN MEMBRANE DIV	FINDS/FRS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					1450 INDUSTRIAL PARK ST COVINA CA 91722	

Registry ID:	110002643140
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	29-DEC-2014 08:54:30
Interest Types:	SQG
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09127
Longitude:	-117.92007
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002643140
Program Acronyms:	

28	3 of 4	N	0.17 / 902.02	457.42 / 4	GAMBRO INC AMERICAN MEMBRAN 1450 INDUSTRIAL PARK ST. COVINA CA 91722	HHSS

County:	Los Angeles
Pdf File Url:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000269d0.pdf

28	4 of 4	N	0.17 / 902.02	457.42 / 4	GAMBRO, INC., AMERICAN MEMBRAN 1450 INDUSTRIAL PARK ST. COVINA CA	HIST TANK

Owner Name:	GAMBRO, INC	**No of Containers:**	4
Owner Street:	600 KNIGHTSBRIDGE PARKWAY	**County:**	LOS ANGELES
Owner City:	LINCOLNSHIRE	**Facility State:**	CA
Owner State:	IL	**Facility Zip:**	91722
Owner Zip:	60069		

29	1 of 2	N	0.18 / 938.46	459.43 / 6	1450 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No:	012869
Area:	6B

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail Info

Permit No:		***Permit Status Code:***	
Permit Cat Desc:		***Permit Category:***	
Status Code:	REM	***File No:***	013089
Status Desc:	Equipment Removed	***File Name:***	GAMBRO CORP
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

29	*2 of 2*	*N*	*0.18 / 938.46*	*459.43 / 6*	***ELECTRIC MELTING SERVICES*** ***1450 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***LA COUNTY CUPA***

Facility ID:	FA0014449
CERS ID:	0

Inactive Facility Details

PE:	1002
PE:	3001

30	*1 of 4*	*N*	*0.17 / 923.32*	*457.42 / 4*	***ROYAL CUSTOM DESIGNS, LLC*** ***1449 INDUSTRIAL PARK ST*** ***COVINA CA 91722-3414***	***FINDS/FRS***

Registry ID:	110041514322
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	07-JUL-2010 05:53:22
Update Date:	01-JUN-2017 17:20:03
Interest Types:	AIR EMISSIONS CLASSIFICATION UNKNOWN, HAZARDOUS WASTE BIENNIAL REPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	337121
NAICS Code Descriptions:	UPHOLSTERED HOUSEHOLD FURNITURE MANUFACTURING.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09127
Longitude:	-117.91983
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110041514322
Program Acronyms:	

30	*2 of 4*	*N*	*0.17 / 923.32*	*457.42 / 4*	***LITHO PLATING*** ***1449 INDUSTRIAL PARK ST.*** ***COVINA, CA 90262***	***PRP***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Site EPA ID: CAT080012826
Site Name: STRINGFELLOW
Site NPL Status: Currently on the Final NPL
Site Non NPL Status:

Noticed Party Action Information

Action Type Seq: NJ-13
Action Name: Not Ltrs
Action Date: GENERAL NOTICE 11/10/1982

30	3 of 4	N	0.17 / 923.32	457.42 / 4	ROYAL CUSTOM DESIGNS INC 1449 INDUSTRIAL PARK ST COVINA CA 91722	EMISSIONS

1987 Criteria Data

Facility ID: 57629
Facility SIC Code: 9999
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: .7
ROGT: .6776
COT:
NOXT:
SOXT:
PMT: .1
PM10T: .096

1987 Toxic Data

Facility ID: 57629
Facility SIC Code: 9999
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1990 Criteria Data

Facility ID: 57629
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: .7
ROGT: .6776
COT:
NOXT:
SOXT:
PMT: .1
PM10T: .096

1990 Toxic Data

Facility ID: 57629
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2002 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	2511	***TOGT:***	4.8425
CO:	19	***ROGT:***	4.46807775
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2002 Toxic Data

Facility ID:	57629	***COID:***	LA
Facility SIC Code:	2511	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2003 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	2511	***TOGT:***	4.8425
CO:	19	***ROGT:***	4.47
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

2003 Toxic Data

Facility ID:	57629	***COID:***	LA
Facility SIC Code:	2511	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2005 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	2.771775002950640509501062440593421058 71
CO:	19	***ROGT:***	2.624
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	.168
CHAPIS:		***PM10T:***	.16128

2005 Toxic Data

Facility ID:	57629	***COID:***	LA

Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2006 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	1.8978502297229394063745315551926582744
CO:	19	***ROGT:***	1.797
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	.169
CHAPIS:		***PM10T:***	.16224

2006 Toxic Data

Facility ID:	57629	***COID:***	LA
Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2007 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	7538	***TOGT:***	1.8978502297229394063745315551926582744
CO:	19	***ROGT:***	1.797
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	.169
CHAPIS:		***PM10T:***	.16224

2007 Toxic Data

Facility ID:	57629	***COID:***	LA
Facility SIC Code:	7538	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2008 Criteria Data

Facility ID:	57629	***CERR Code:***	
Facility SIC Code:	2512	***TOGT:***	3.68662131230241291528319107481518104602
CO:	19	***ROGT:***	3.28217

Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	.30135
CHAPIS:		**PM10T:**	.289296

2008 Toxic Data

Facility ID:	57629	**COID:**	LA
Facility SIC Code:	2512	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2009 Criteria Data

Facility ID:	57629	**CERR Code:**	
Facility SIC Code:	2512	**TOGT:**	1.18502321373746297137512663559650280794
CO:	19	**ROGT:**	1.11429
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	.12
CHAPIS:		**PM10T:**	.1152

2009 Toxic Data

Facility ID:	57629	**COID:**	LA
Facility SIC Code:	2512	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2010 Toxic Data

Facility ID:	57629	**COID:**	LA
Facility SIC Code:	2512	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2011 Criteria Data

Facility ID:	57629	**CERR Code:**	
Facility SIC Code:	2512	**TOGT:**	1.63031374725082590251129576972273601488
CO:	19	**ROGT:**	1.54939
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	
COID:	LA	**SOXT:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

DISN:	SOUTH COAST AQMD	**PMT:**	.16
CHAPIS:		**PM10T:**	.1536

2011 Toxic Data

Facility ID:	57629	**COID:**	LA
Facility SIC Code:	2512	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
30	*4 of 4*	*N*	*0.17 / 923.32*	*457.42 / 4*	***ROYAL CUSTOM UPHOLSTERY INC*** ***1449 INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***FINDS/FRS***

Registry ID:	110070332931
FIPS Code:	
HUC Code:	
Site Type Name:	
Location Description:	
Supplemental Location:	
Create Date:	27-SEP-2018 16:48:24
Update Date:	
Interest Types:	OSHA ESTABLISHMENT
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	337110
NAICS Code Descriptions:	WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING.
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070332931
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
31	*1 of 3*	*N*	*0.17 / 911.14*	*456.81 / 3*	***1471 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***LA HMS***

Site No:	022852
Area:	6B

Detail Info

Permit No:		**Permit Status Code:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Permit Cat Desc:		**Permit Category:**	
Status Code:	OPEN	**File No:**	031988
Status Desc:	File Opened, no permit exists	**File Name:**	COMPOSITES HORIZONS INC
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
31	2 of 3	N	0.17 / 911.14	456.81 / 3	COMPOSITES HORIZONS INC 1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414	RCRA TSD

EPA Handler ID:	CAD981374705
Gen Status Universe:	No Report
Contact Name:	GONZALO RAMOS
Contact Address:	1471 W INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext:	626-331-0861
Contact Email:	GRAMOS@PCCSTRUCTURALS.COM
Contact Country:	
Land Type:	
County Name:	LOS ANGELES
EPA Region:	09
Receive Date:	19880617

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19880617
Handler Name:	COMPOSITES HORIZONS INC
Generator Status Universe:	No Report
Source Type:	Implementer

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20060225
Handler Name:	COMPOSITES HORIZONS, INC.
Generator Status Universe:	No Report
Source Type:	Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: 212
Waste Code Description: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20080714
Handler Name: COMPOSITES HORIZONS, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: THOMAS HYNES
Date Became Current: 20000101
Date Ended Current:
Phone:
Source Type: Annual/Biennial Report update with Notification
Street No:
Street 1:
Street 2:
City:
State:
Country: US
Zip Code:

Owner/Operator Ind: Current Owner
Type: Other
Name: COMPOSITE HORIZONS INC
Date Became Current:
Date Ended Current:
Phone: 626-331-0861
Source Type: Implementer
Street No:
Street 1: 1471 W INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722-3414

Owner/Operator Ind: Current Owner
Type: Private
Name: HAMPSON INDUSTRIES, PLC
Date Became Current: 20070101
Date Ended Current:
Phone:
Source Type: Annual/Biennial Report
Street No:
Street 1: 7 HARBOUR BUILDINGS
Street 2:
City: WEST MIDLANDS
State: CA
Country: US
Zip Code: 95812

Owner/Operator Ind: Current Operator
Type: Other
Name: GONZALO RAMOS
Date Became Current:
Date Ended Current:
Street No:
Street 1: 1471 W INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone:	626-331-0861	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	1471 INDUSTRIAL PARK STREET
Name:	THOMAS HYNES	**Street 2:**	
Date Became Current:	19760101	**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	91722
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	JEFFREY HYNES	**Street 2:**	
Date Became Current:	20040401	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report	**Zip Code:**	

Historical Handler Details

Receive Dt:	20080714
Generator Code Description:	Large Quantity Generator
Handler Name:	COMPOSITES HORIZONS, INC.
Receive Dt:	20060225
Generator Code Description:	Large Quantity Generator
Handler Name:	COMPOSITES HORIZONS, INC.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
31	3 of 3	N	0.17 / 911.14	456.81 / 3	COMPOSITES HORIZONS INC 1471 W INDUSTRIAL PARK ST COVINA CA 91722-3414	RCRA NON GEN

EPA Handler ID:	CAD981374705
Gen Status Universe:	No Report
Contact Name:	GONZALO RAMOS
Contact Address:	1471 W INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext:	626-331-0861
Contact Email:	GRAMOS@PCCSTRUCTURALS.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	19880617

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No

Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19880617
Handler Name: COMPOSITES HORIZONS INC
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20060225
Handler Name: COMPOSITES HORIZONS, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: 212
Waste Code Description: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20080714
Handler Name: COMPOSITES HORIZONS, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: GONZALO RAMOS
Date Became Current:
Date Ended Current:
Phone: 626-331-0861
Source Type: Implementer
Street No:
Street 1: 1471 W INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	1471 INDUSTRIAL PARK STREET
Name:	THOMAS HYNES	**Street 2:**	
Date Became Current:	19760101	**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	91722

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	1471 W INDUSTRIAL PARK ST
Name:	COMPOSITE HORIZONS INC	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-331-0861	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722-3414

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	THOMAS HYNES	**Street 2:**	
Date Became Current:	20000101	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	JEFFREY HYNES	**Street 2:**	
Date Became Current:	20040401	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report	**Zip Code:**	

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	7 HARBOUR BUILDINGS
Name:	HAMPSON INDUSTRIES, PLC	**Street 2:**	
Date Became Current:	20070101	**City:**	WEST MIDLANDS
Date Ended Current:		**State:**	CA
Phone:		**Country:**	US
Source Type:	Annual/Biennial Report	**Zip Code:**	95812

Historical Handler Details

Receive Dt:	20080714
Generator Code Description:	Large Quantity Generator
Handler Name:	COMPOSITES HORIZONS, INC.

Receive Dt:	20060225
Generator Code Description:	Large Quantity Generator
Handler Name:	COMPOSITES HORIZONS, INC.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
32	1 of 5	N	0.17 / 908.93	456.41 / 3	**COMPOSITES HORIZONS INC** **1471 INDUSTRIAL PARK STREET** **COVINA CA 91722-3499**	FINDS/FRS

Registry ID:	110013830569
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	02-APR-2003 17:24:54
Update Date:	01-JUN-2017 17:17:18
Interest Types:	HAZARDOUS AIR POLLUTANT MAJOR, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, STORM WATER INDUSTRIAL, TRANSPORTER
SIC Codes:	3089
SIC Code Descriptions:	PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

NAICS Codes:	326199, 339113
NAICS Code Descriptions:	ALL OTHER PLASTICS PRODUCT MANUFACTURING., SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09128
Longitude:	-117.92067
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110013830569
Program Acronyms:	

32	2 of 5	N	0.17 / 908.93	456.41 / 3	**COMPOSITES HORIZONS INC** **1471 INDUSTRIAL PARK ST** **COVINA CA 91722**	EMISSIONS

1987 Criteria Data

Facility ID:	36593	**CERR Code:**	
Facility SIC Code:	3089	**TOGT:**	1.8
CO:	19	**ROGT:**	1.7424
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

1987 Toxic Data

Facility ID:	36593	**COID:**	LA
Facility SIC Code:	3089	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1990 Criteria Data

Facility ID:	36593	**CERR Code:**	
Facility SIC Code:	3089	**TOGT:**	1.5
CO:	19	**ROGT:**	1.452
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

1990 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1996 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1997 Criteria Data

Facility ID:	36593	***CERR Code:***	
Facility SIC Code:	3089	***TOGT:***	1.533
CO:	19	***ROGT:***	1.2292483
Air Basin:	SC	***COT:***	.01
District:	SC	***NOXT:***	.038
COID:	LA	***SOXT:***	.00024
DISN:	SOUTH COAST AQMD	***PMT:***	.002
CHAPIS:		***PM10T:***	.0019

1997 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1998 Criteria Data

Facility ID:	36593	***CERR Code:***	
Facility SIC Code:	3089	***TOGT:***	1.498
CO:	19	***ROGT:***	1.1992267
Air Basin:	SC	***COT:***	.01
District:	SC	***NOXT:***	.038
COID:	LA	***SOXT:***	.00024
DISN:	SOUTH COAST AQMD	***PMT:***	.002
CHAPIS:		***PM10T:***	.0019

1998 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	

Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CERR Code:

1999 Criteria Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 1.533
ROGT: 1.2292483
COT: .01
NOXT: .038
SOXT: .00024
PMT: .002
PM10T: .0019

1999 Toxic Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2000 Criteria Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 1.533
ROGT: 1.22
COT: .01
NOXT: .038
SOXT: .00024
PMT: .002
PM10T: 0

2000 Toxic Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Criteria Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: 1.53
ROGT: 1.23
COT: .01
NOXT: .04
SOXT: 0
PMT: 0
PM10T: 0

2001 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2002 Criteria Data

Facility ID:	36593	***CERR Code:***	
Facility SIC Code:	3089	***TOGT:***	.0109
CO:	19	***ROGT:***	.00460198
Air Basin:	SC	***COT:***	.0229
District:	SC	***NOXT:***	.0852
COID:	LA	***SOXT:***	.000544
DISN:	SOUTH COAST AQMD	***PMT:***	.00491
CHAPIS:		***PM10T:***	.0046645

2002 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2003 Criteria Data

Facility ID:	36593	***CERR Code:***	
Facility SIC Code:	3089	***TOGT:***	.0109
CO:	19	***ROGT:***	0
Air Basin:	SC	***COT:***	.0229
District:	SC	***NOXT:***	.0852
COID:	LA	***SOXT:***	.000544
DISN:	SOUTH COAST AQMD	***PMT:***	.00491
CHAPIS:		***PM10T:***	0

2003 Toxic Data

Facility ID:	36593	***COID:***	LA
Facility SIC Code:	3089	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Toxic Data

Facility ID:	36593	***TS:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code: 3089
CERR CODE:
COID: LA
CO: 19
DISN: SOUTH COAST AQMD
CHAPIS:
HRA:
CH Index:
AH Index:
Air Basin: SC
District: SC

2017 Toxic Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

32	3 of 5	N	0.17 / 908.93	456.41 / 3	COMPOSITES H30IZONS INC 1471 INDUSTRIAL PARK ST COVINA CA 91722	EMISSIONS

2015 Toxic Data

Facility ID: 36593
Facility SIC Code: 3089
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

32	4 of 5	N	0.17 / 908.93	456.41 / 3	COMPOSITES HORIZONS INC 1471 INDUSTRIAL PARK ST COVINA CA 91722	CERS HAZ

Site ID: 107631
Latitude: 34.091310
Longitude: -117.921180
County: Los Angeles County

Regulated Programs

EI ID: 649716
EI Description: Industrial Facility Storm Water

EI ID: 10265782
EI Description: Chemical Storage Facilities

EI ID: 10265782
EI Description: Hazardous Waste Generator

Violations

Violation Date: 02/01/2016
Violation Program: HW
Violation Source: CERS
Violation Division: Los Angeles County Fire Department
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Notes:

Returned to compliance on 03/01/2016. OBSERVATION: Copies of hazardous waste disposal records for [whichever year(s)] were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and

receipts for the last three years, maintain them on site, and submit copies to the CUPA by [date, 30 days from now].

Violation Description:

Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.

Violations

Violation Date: 12/03/2010 ***Violation Source:*** SMARTS
Violation Program: INDSTW ***Violation Division:*** Water Boards
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Notes:

Non storm water discharges from leaking cooling water tower and flushing the tower.

Violation Description:

Unauthorized Discharge

Violations

Violation Date: 12/03/2010 ***Violation Source:*** SMARTS
Violation Program: INDSTW ***Violation Division:*** Water Boards
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Notes:

The site map needs to be revised to include newly purchased building.

Violation Description:

SWPPP

Violations

Violation Date: 02/01/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Notes:

Returned to compliance on 03/01/2016. OBSERVATION: No waste analysis was available for the sanding and paint filters waste. This waste is being disposed of as non-hazardous waste. A generator shall makle a hazardous waste determination and keep a record of any test results, waste analyses, or other determinations made in accordance with hazardous waste regulations for at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal. CORRECTIVE ACTION: Immediately locate a copy of the waste analysis conducted for the [note type of waste] waste and submit a copy to the EHD by July 23, 2011.

Violation Description:

Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.

Violations

Violation Date: 02/01/2016 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 03/01/2016. OBSERVATION: The annotated site map submitted to the CUPA does not include all structuers and fire extinguishers. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 12/03/2010 ***Violation Source:*** SMARTS
Violation Program: INDSTW ***Violation Division:*** Water Boards
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Notes:

Inadequate BMPs. - Rusty scrap materials were stored outdoor. - Liquid soap drum without cover.

Violation Description:

SW - Deficient BMP Implementation

Violations

Violation Date: 02/01/2016 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 03/01/2016. OBSERVATION: report two new nitrogen tank (2x11000g). CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 06/22/2009 ***Violation Source:*** SMARTS
Violation Program: INDSTW ***Violation Division:*** Water Boards
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Notes:

The permittee failed in collecting storm water samples for the 2008/09 rainy season although the records from the closest rain gauge show that there were enough precipitations for sampling for the season.

Violation Description:

SW - Deficient Report

Enforcements

Enf Action Date: 01/13/2011 ***Enf Action Program:*** INDSTW
Enf Action Type: Industrial Storm Water Enforcement ***Enf Action Source:*** SMARTS
Enf Action Division: Water Boards
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes:

Ordered to provide an explanation for the failure to collect samples, analyze and report the data.

Enf Action Date: 12/03/2010 ***Enf Action Program:*** INDSTW
Enf Action Type: Notice to Comply ***Enf Action Source:*** SMARTS
Enf Action Division: Water Boards
Enf Action Description: Notice to Comply
Enf Action Notes:

Inadequate BMPs and non storm water discharges.

Enf Action Date: 06/22/2009
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Division: Water Boards
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes:
Enf Action Program: INDSTW
Enf Action Source: SMARTS

AR

Evaluations

Eval Date: 12/03/2010
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS
Eval Notes:

- The site map needs to be revised to include newly purchased building. - Inadequate BMPs.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/08/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

ADELE LAIKIN NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/01/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

test result for paint filter and sanding proved non haz.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/01/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Tom Hynes, director; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/01/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval Notes:

cers submitted.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/01/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Tom Hynes, director; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/08/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

ADELE LAIKIN NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Operator
Entity Name: Adele Laikin
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 331-0861

Affil Type Desc: Legal Owner
Entity Name: COMPOSITES HORIZONS
Entity Title:
Address: 1471 INDUSTRIAL PARK STREET
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 331-0861

Affil Type Desc: Property Owner
Entity Name: Composites Horizons
Entity Title:
Address: 1471 INDUSTRIAL PARK STREET
City: COVINA
State: CA
Country: United States

Zip Code: 91722
Phone: (626) 331-0861

Affil Type Desc: Document Preparer
Entity Name: ROB REED
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: COMPOSITES HORIZONS INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Owner/Operator
Entity Name: Composites Horizons Inc
Entity Title: Operator
Address: 1471 Industrial Park St
City: Covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Environmental Contact
Entity Name: Adele Laikin
Entity Title:
Address: 1471 INDUSTRIAL PARK STREET
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1471 INDUSTRIAL PARK STREET
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Identification Signer
Entity Name: Adele Laikin
Entity Title: Environmental, Health and Safety Manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HWG	***Longitude:***	-117.921070
Program ID:	10265782	***Coord Name:***	
Latitude:	34.091740	***Ref Point Type Desc:***	Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
32	5 of 5	N	0.17 / 908.93	456.41 / 3	COMPOSITES HORIZONS INC 1471 INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014450
CERS ID: 10265782

Active Facility Details

PE: 1004

PE: 3004

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
33	1 of 1	W	0.11 / 575.51	438.09 / -15	VINCENT CHEVRON/MOGHADAM ARCO 206 VINCENT AVE N COVINA CA 91790	LUST

Global ID: T0603703819
Status: COMPLETED - CASE CLOSED
Status Date: 1993-05-26 00:00:00
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites from GeoTracker Search; LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download
County: LOS ANGELES
Latitude: 34.087342
Longitude: -117.9252778

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: I-11589
Local Case No:
Begin Date: 1990-03-05 00:00:00
Lead Agency: LOS ANGELES COUNTY
Local Agency: LOS ANGELES COUNTY
CUF Case: NO
Potential Media of Concern: Soil
How Discovered Description:
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
DWR GW Subbasin Name: San Gabriel Valley (4-013)
Disadvantaged Community:
Site History:
Potential COC: Gasoline
How Discovered:
Stop Method:
Stop Description:
Case Worker: JOA
File Location:

Regulatory Activity

Action Type: Other
Date : 1990-03-05 00:00:00
Action: Leak Reported

Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
City: Los Angeles
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
Email: yrong@waterboards.ca.gov
Phone No:

Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
City: ALHAMBRA
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
Email: jawujo@dpw.lacounty.gov
Phone No: 6264583507

Status History

Status: Completed - Case Closed
Status Date: 1993-05-26 00:00:00

Status: Open - Case Begin Date
Status Date: 1990-03-05 00:00:00

Status: Open - Site Assessment
Status Date: 1990-03-05 00:00:00

LUST Sites from GeoTracker Search - Regulatory Profile(as of Oct 31, 2019)

Site Facility Name: VINCENT CHEVRON/MOGHADAM ARCO
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
File Location:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 206 VINCENT AVE N
City: COVINA
Zip: 91790
County: LOS ANGELES
CUF Claim:
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603703819
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 5/26/1993
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603703819&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Gabriel Valley (4-013)
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: LOS ANGELES COUNTY (LEAD)
CASEWORKER: JOHN AWUJO
LOS ANGELES RWQCB (REGION 4) - CASE #: I-11589
CASEWORKER: YUE RONG
Gndwater Monitoring Freque:
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History(as of Oct 31, 2019)

Status: Completed - Case Closed
Date : 5/26/1993

Status: Open - Site Assessment
Date : 3/5/1990

Status: Open - Case Begin Date
Date : 3/5/1990

LUST Sites from GeoTracker Search - Regulatory Activities(as of Oct 31, 2019)

Action Type: Leak Action
Action Date: 3/5/1990
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

34	1 of 9	NNE	0.18 / 965.44	460.43 / 7	NORLAINE INC DBA PATINA V 1449 W INDUSTRIAL PARK ST	RCRA SQG

EPA Handler ID: CAR000257733
Gen Status Universe: Small Quantity Generator
Contact Name: RICK RODRIGUEZ
Contact Address: 1449 , W INDUSTRIAL PARK ST , , COVINA , CA, 91722 , US
Contact Phone No and Ext: 626-926-1944
Contact Email: RICK@PATINAV.COM
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Private
Receive Date: 20151124

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20151124
Handler Name: NORLAINE INC DBA PATINA V
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 212
Waste Code Description: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

Hazardous Waste Code: 223
Waste Code Description: Unspecified oil-containing waste

Hazardous Waste Code: 272
Waste Code Description: Polymeric resin waste

Hazardous Waste Code: 281
Waste Code Description: Adhesives

Hazardous Waste Code: 331
Waste Code Description: Off-specification, aged, or surplus organics

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	PATINA V	**Street 2:**	
Date Became Current:	19911001	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	
Owner/Operator Ind:	Current Owner	**Street No:**	1449
Type:	Private	**Street 1:**	W INDUSTRIAL PARK ST
Name:	NORLAINE INC	**Street 2:**	
Date Became Current:	19911001	**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-961-2471	**Country:**	US
Source Type:	Notification	**Zip Code:**	91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	2 of 9	NNE	0.18 / 965.44	460.43 / 7	NORLAINE INC DBA PATINA V 1449 W INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110067265550
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 23-FEB-2016 15:16:13
Update Date:
Interest Types: SQG, TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 337215, 339999
NAICS Code Descriptions: ALL OTHER MISCELLANEOUS MANUFACTURING., SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09169
Longitude: -117.91973
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110067265550
Program Acronyms:

---

34 | 3 of 9 | NNE | 0.18 / 965.44 | 460.43 / 7 | **PATINA V**
1449 W INDUSTRIAL PARK ST
COVINA CA 91722 | FINDS/FRS

Registry ID: 110066257810
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 14-OCT-2015 10:40:27
Update Date:
Interest Types: STATE MASTER
SIC Codes: 3999
SIC Code Descriptions: MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09169
Longitude: -117.91973
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066257810
Program Acronyms:

---

34 | 4 of 9 | NNE | 0.18 / 965.44 | 460.43 / 7 | **N.P. COLLISION CENTER**
1449 W INDUSTRIAL PARK ST
PASADENA CA 91107 | EMISSIONS

2015 Criteria Data

Facility ID: 178167
Facility SIC Code: 7538
CO: 19
Air Basin: SC
District: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: .9391895567582291177796795774323864211501
ROGT: .93312116
COT: .0076636
NOXT: .0284648
SOXT: .000131376
PMT: .78005945
PM10T: .74884065

2015 Toxic Data

Facility ID: 178167
COID: LA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code:	7538	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

34	5 of 9	NNE	0.18 / 965.44	460.43 / 7	**NORLAINE INC DBA PATINA V** **1449 WEST INDUSTRIAL PARK ST** **COVINA CA 91722**	FINDS/FRS

Registry ID:	110070094053
FIPS Code:	
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	07-AUG-2017 11:03:16
Update Date:	
Interest Types:	ICIS-NPDES NON-MAJOR, STORM WATER INDUSTRIAL
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	ICIS
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	34.09166
Longitude:	-117.91991
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070094053
Program Acronyms:	

34	6 of 9	NNE	0.18 / 965.44	460.43 / 7	**MYK TRADING INC** **1449 W INDUSTRIAL PARK ST** **COVINA CA 91722**	CERS HAZ

Site ID:	141918
Latitude:	34.091690
Longitude:	-117.919730
County:	Los Angeles County

Regulated Programs

EI ID:	10265593	**EI Description:**	Chemical Storage Facilities

Violations

Violation Date:	03/13/2014	**Violation Source:**	CERS
Violation Program:	HW	**Violation Division:**	Los Angeles County Fire Department

Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Notes:

Returned to compliance on 04/14/2014.

Violation Description:

Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.

Violations

Violation Date: 03/13/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 04/14/2014.

Violation Description:

Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 03/13/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Notes:

Returned to compliance on 04/14/2014.

Violation Description:

Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.

Violations

Violation Date: 08/03/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/28/2018. OBSERVATION: The business failed to complete and electronically submit a business plan when handling hazardous materials at or above the reportable threshold quantities. CORRECTIVE ACTION: Complete and electronically submit a business plan. Complete and submit the business activities, ownership information, hazardous materials inventory, site map, emergency response plan and training plan. Go to www.cers.calepa.ca.gov.

Violation Description:

Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 08/03/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: Un-Specified
Violation Notes:

Returned to compliance on 12/13/2018. OBSERVATION: Owner/Operator failed to obtain or maintain an active hazardous materials permit. Observed (3) x 8-gallon propane gas cylinders for forklift. CORRECTIVE ACTION: Every business or business concern within the jurisdiction of the LACoCUPA and subject to one or more of the program elements shall be required to apply for, pay the permit fees, and obtain from the LACoCUPA a unified

program facility permit for the program elements applicable to such facility prior to the commencement of any business or activity related to any of the program elements. The permit required under this section shall be posted and conspicuously displayed at the location falling under the requirements of this chapter. Go to www.cers.calepa.ca.gov.

Violation Description:

Business Plan Program - Administration/Documentation - General Local Ordinance

Violations

Violation Date: 11/07/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Notes:

Returned to compliance on 07/06/2016.

Violation Description:

Failure to electronically update business plan within 30 days of any one of the following events:
A 100 percent or more increase in the quantity of a previously disclosed material.
Any handling of a previously undisclosed hazardous materials at or above reportable quantities.
A change of business address, business ownership, or business name.

Evaluations

Eval Date: 04/14/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/28/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 07/05/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

cers submitted; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/14/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 09/04/2015
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

inventory and map submitted.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/13/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/13/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 10/03/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/13/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 08/06/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 08/06/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP

Eval Source: CERS
Eval Notes:

KAI ZUO; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/07/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

NEW BUSINESS,NO HW GENERATED YET.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/07/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

NEW BUSINESS.NEED TO UPDATE INVENTORY.ADD MAP.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/25/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Identification Signer
Entity Name: KAI ZUO
Entity Title: CFO
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Document Preparer
Entity Name: KAI ZUO
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Environmental Contact
Entity Name: KAI ZUO
Entity Title:
Address: 1449 W INDUSTRIAL PARK ST
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Parent Corporation
Entity Name: MYK TRADING INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: MYK TRADING INC
Entity Title:
Address: 1449 W INDUSTRIAL PARK ST
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 688-5363

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1449 W INDUSTRIAL PARK ST
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Operator
Entity Name: MYK TRADING INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 688-5363

Coordinates

Env Int Type Code: HMBP
Program ID: 10265593
Latitude: 34.091760
Longitude: -117.919690
Coord Name:
Ref Point Type Desc: Center of a facility or station.

34	7 of 9	NNE	0.18 / 965.44	460.43 / 7	NORLAINE, INC 1449 W INDUSTRIAL PARK ST COVINA CA 91722	EMISSIONS

2016 Criteria Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID:	178167	**CERR CODE:**	
Facility SIC Code:	3089	**TOGT:**	. 18854716156401549659976626268761100221 78
CO:	19	**ROGT:**	.18385
Air Basin:	SC	**COT:**	.00972
District:	SC	**NOXT:**	.03
COID:	LA	**SOXT:**	.000167
DISN:	SOUTH COAST AQMD	**PMT:**	.384558
CHAPIS:		**PM10T:**	.36915488

2016 Toxic Data

Facility ID:	178167	**TS:**	
Facility SIC Code:	3089	**HRA:**	
CERR CODE:		**CH Index:**	
COID:	LA	**AH Index:**	
CO:	19	**Air Basin:**	SC
DISN:	SOUTH COAST AQMD	**District:**	SC
CHAPIS:			

2017 Toxic Data

Facility ID:	178167	**COID:**	LA
Facility SIC Code:	3089	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

34	8 of 9	NNE	0.18 / 965.44	460.43 / 7	NORLAINE INC DBA PATINA V 1449 W INDUSTRIAL PARK ST COVINA CA 91722	RCRA NON GEN

EPA Handler ID:	CAL000402710
Gen Status Universe:	No Report
Contact Name:	RICK RODRIGUEZ
Contact Address:	1449 W. INDUSTRIAL PARK STREET , , COVINA , CA, 91722-3414 ,
Contact Phone No and Ext:	626-926-1944
Contact Email:	RICK@PATINAV.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20141205

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No

Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20141205
Handler Name:	NORLAINE INC DBA PATINA V
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1449 W. INDUSTRIAL PARK STREET
Name:	RICK RODRIGUEZ	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-926-1944	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722-3414

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	1449 W INDUSTRIAL PARK ST
Name:	NORLAINE, INC. DBA PATINAV	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-961-2471	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	9 of 9	NNE	0.18 / 965.44	460.43 / 7	MYK TRADING INC 1449 W INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID:	FA0014458
CERS ID:	10265593

Active Facility Details

PE:	3001

Inactive Facility Details

PE:	1003

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
35	1 of 2	W	0.11 / 591.44	438.42 / -15	S P I PHARMACEUTICALS 220 N VINCENT COVINA CA 91722	RCRA SQG

EPA Handler ID:	CAD983632969
Gen Status Universe:	Small Quantity Generator
Contact Name:	TED TIMMONS
Contact Address:	220 N VINCENT , , COVINA , CA, 91722 , US
Contact Phone No and Ext:	818-915-1151
Contact Email:	
Contact Country:	US
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	Private

Receive Date: 19920422

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920422
Handler Name: S P I PHARMACEUTICALS
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: I C N PHARMACEUTICALS
Date Became Current:
Date Ended Current:
Phone: 714-545-0100
Source Type: Notification
Street No:
Street 1: 3300 HYLAND AVE
Street 2:
City: COSTA MESA
State: CA
Country:
Zip Code: 92626

---

35 | **2 of 2** | **W** | **0.11 / 591.44** | **438.42 / -15** | **S P I PHARMACEUTICALS**
220 N VINCENT
COVINA CA 91722 | ***FINDS/FRS***

Registry ID: 110002873999
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-2000 00:00:00
Update Date: 26-JAN-2012 13:13:00
Interest Types: SQG
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 325412
NAICS Code Descriptions: PHARMACEUTICAL PREPARATION MANUFACTURING.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374054002024
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.087694
Longitude:	-117.92537
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002873999
Program Acronyms:	

36	1 of 1	W	0.11 / 586.59	438.45 / -15	VINCENT CHEVRON 206 VINCENT AVE N COVINA CA 91790	FINDS/FRS

Registry ID:	110065878562
FIPS Code:	
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	13-OCT-2015 15:55:30
Update Date:	15-OCT-2015 07:50:18
Interest Types:	STATE MASTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374054002024
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.087564
Longitude:	-117.92537
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065878562
Program Acronyms:	

37	1 of 4	W	0.11 / 586.02	438.45 / -15	VIRATEK INC 222 N VINCENT AVE COVINA CA 91722	RCRA SQG

EPA Handler ID:	CAD055495071
Gen Status Universe:	Small Quantity Generator
Contact Name:	
Contact Address:	US
Contact Phone No and Ext:	
Contact Email:	

Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19960901

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19960901
Handler Name: VIRATEK INC
Generator Status Universe: Small Quantity Generator
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Implementer
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Owner/Operator Ind: Current Owner
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Implementer
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

37	*2 of 4*	*W*	*0.11 / 586.02*	*438.45 / -15*	***VIRATEK INC*** ***222 N VINCENT AVE*** ***COVINA CA 91722***	***FINDS/FRS***

Registry ID: 110002650328
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	08-AUG-2010 18:13:54
Interest Types:	SQG
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374054002024
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.087713
Longitude:	-117.92537
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002650328
Program Acronyms:	

37	3 of 4	W	0.11 / 586.02	438.45 / -15	222 N VINCENT AVE COVINA CA 91722	LA HMS

Site No:	025596
Area:	6B

Detail Info

Permit No:		**Permit Status Code:**	
Permit Cat Desc:		**Permit Category:**	
Status Code:	OPEN	**File No:**	035066
Status Desc:	File Opened, no permit exists	**File Name:**	H Y I
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

37	4 of 4	W	0.11 / 586.02	438.45 / -15	ICN PHARMACEUTICALS-CAL 222 N VINCENT AV COVINA CA 91722	EMISSIONS

1993 Criteria Data

Facility ID:	10260	**CERR Code:**	
Facility SIC Code:	2834	**TOGT:**	0
CO:	19	**ROGT:**	0
Air Basin:	SC	**COT:**	0
District:	SC	**NOXT:**	.1
COID:	LA	**SOXT:**	0
DISN:	SOUTH COAST AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

1993 Toxic Data

Facility ID:	10260	***COID:***	LA
Facility SIC Code:	2834	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1995 Criteria Data

Facility ID:	10260	***CERR Code:***	
Facility SIC Code:	2834	***TOGT:***	0
CO:	19	***ROGT:***	0
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	.1
COID:	LA	***SOXT:***	0
DISN:	SOUTH COAST AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

1995 Toxic Data

Facility ID:	10260	***COID:***	LA
Facility SIC Code:	2834	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	*1 of 4*	*E*	*0.13 / 697.14*	*466.33 / 13*	***YASHVANT N * SHAH*** ***1274 W. SN BERNDINO LKELLN*** ***COVINA CA 91723***	***HHSS***

County:	Los Angeles
Pdf File Url:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000283d1.pdf

---

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	*2 of 4*	*E*	*0.13 / 697.14*	*466.33 / 13*	***YASHVANT N * =SHAH*** ***1274 W SN BERNDINO*** ***COVINA CA***	***HIST TANK***

Owner Name:	SHELL OIL COMPANY	***No of Containers:***	4
Owner Street:	P. O. 4848	***County:***	LOS ANGELES
Owner City:	ANAHEIM	***Facility State:***	CA
Owner State:	CA	***Facility Zip:***	91723
Owner Zip:	92803		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	*3 of 4*	*E*	*0.13 / 697.14*	*466.33 / 13*	***SHELL (LARK ELLEN)*** ***1274 W SAN BERNANDINO RD*** ***COVINA CA 91722***	***DELISTED CTNK***

Site ID:	523138
Latitude:	34.088350
Longitude:	-117.916550
County:	
Original Source:	CTNK
Record Date:	06-MAY-2019

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	4 of 4	E	0.13 / 697.14	466.33 / 13	SHELL (LARK ELLEN) 1274 W SAN BERNANDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0022997
CERS ID: 10797811

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
39	1 of 1	E	0.13 / 701.39	465.72 / 12	SHELL SERVICE STATION 1274 E. SAN BERNARDINO ROAD COVINA CA 91723	CLEANUP SITES

Global ID: SL0603752584
Status: COMPLETED - CASE CLOSED
Status Date: 2006-07-17 00:00:00
Longitude: -117.916213
Site Facility Type: CLEANUP PROGRAM SITE
County: LOS ANGELES
Latitude: 34.088138
Data Source: Cleanup Program Sites from GeoTracker Search; Cleanup Sites from GeoTracker Cleanup Sites Data Download

Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No:
Local Case No:
Begin Date: 2002-11-27 00:00:00
Stop Method:
Lead Agency: LOS ANGELES COUNTY
Local Agency: LOS ANGELES COUNTY
Potential COC: Gasoline
Potential Media of Concern: Under Investigation
How Discovered:
How Discovered Description:
Stop Description:
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
DWR GW Subbasin Name: San Gabriel Valley (4-013)
Disadvantaged Community:
Site History:
CUF Case: NO
Case Worker: PKL
File Location: Local Agency

Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Acitivity

Action Type: REMEDIATION
Date : 2005-08-01 00:00:00
Action:

Action Type: Other
Date : 2002-12-23 00:00:00
Action: Leak Reported

Action Type: Other
Date : 2002-11-27 00:00:00
Action: Leak Discovery

Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 2006-07-17 00:00:00

Status: Open - Site Assessment
Status Date: 2002-12-23 00:00:00

Status: Open - Case Begin Date
Status Date: 2002-11-27 00:00:00

Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Phone No:
Organization Name: LOS ANGELES RWQCB (REGION 4)
Email: yrong@waterboards.ca.gov
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles

Contact Type: Local Agency Caseworker
Contact Name: MANUEL R REGALADO
Phone No:
Organization Name: LOS ANGELES COUNTY
Email: mregalad@dpw.lacounty.gov
Address: 900 S. FREMONT AVE.
City: ALHAMBRA

Cleanup Program Sites from GeoTracker Search - Regulatory Profile(as of Oct 31, 2019)

Project Status:
CUF Claim:
CUF Priority Assign:
CUF Amount Paid:
User Defined Beneficial Use:
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=SL0603752584
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 7/17/2006
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=SL0603752584&tabname=regulatoryhistory
Potential COC: GASOLINE
Potential Media of Concern: UNDER INVESTIGATION
DWR GW Sub Basin: San Gabriel Valley (4-013)
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: LOS ANGELES COUNTY (LEAD)
CASEWORKER: MANUEL R REGALADO
LOS ANGELES RWQCB (REGION 4)
CASEWORKER: YUE RONG
WDR Place Type:
WDR File:
WDR Order:
File Location: LOCAL AGENCY

Site History:

No site history available

Sites from GeoTracker Search - Cleanup Action Report (as of Oct 31, 2019)

Action Type: UNKNOWN
Phase:
Description:
Contaminant Mass Removed:
Begin Date: 8/1/2005
End Date:

Sites from GeoTracker Search - Regulatory Activities(as of Oct 31, 2019)

Action Type: Cleanup Action
Action Date: 8/1/2005
Received Issue Date:
Action:
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 12/23/2002

Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 11/27/2002
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Sites from GeoTracker Search - Site Maps(as of Oct 31, 2019)

Title: GEO_MAP ***Submitted By:*** WAYNE PERRY, INC. (CONTRACTOR)
Size : 101 KB ***Submitted:*** 6/7/2006
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/3956251382/SL0603752584.pdf

Sites from GeoTracker Search - Cleanup Status History (as of Oct 31, 2019)

Status: Completed - Case Closed
Date : 7/17/2006

Status: Open - Site Assessment
Date : 12/23/2002

Status: Open - Case Begin Date
Date : 11/27/2002

---

40 ***1 of 4*** ***NNW*** ***0.17 / 899.37*** ***455.43 / 2*** ***MONTEREY MACHINE PRODUCTS***
1504 INDUSTRIAL PARK ST
COVINA CA 91722 ***FINDS/FRS***

Registry ID: 110002896876
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location: UNIT A
Create Date: 01-MAR-2000 00:00:00
Update Date: 14-OCT-2015 09:38:02
Interest Types: SQG, STATE MASTER, TRANSPORTER
SIC Codes: 3499
SIC Code Descriptions: FABRICATED METAL PRODUCTS, NOT ELSEWHERE CLASSIFIED
NAICS Codes: 332722
NAICS Code Descriptions: BOLT, NUT, SCREW, RIVET, AND WASHER MANUFACTURING.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.091282
Longitude: -117.921698
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 150
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002896876

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Program Acronyms:						

40	2 of 4	NNW	0.17 / 899.37	455.43 / 2	1504 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No: 022853
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031989
File Name: MONTEREY MACHINE PRODUCTS

40	3 of 4	NNW	0.17 / 899.37	455.43 / 2	MONTEREY MACHINE PRODUCTS 1504 INDUSTRIAL PARK ST # A COVINA CA 91722	CERS HAZ

Site ID: 136180
Latitude: 34.091240
Longitude: -117.921720
County: Los Angeles County

Regulated Programs

EI ID: 10308448
EI Description: Chemical Storage Facilities

EI ID: 10308448
EI Description: Hazardous Waste Generator

Violations

Violation Date: 06/09/2015
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Los Angeles County Fire Department
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Notes:

Returned to compliance on 12/08/2017.

Violation Description:

Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 06/09/2015
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Los Angeles County Fire Department
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/08/2017.

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violations

Violation Date: 06/09/2015 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/08/2017.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 06/09/2015 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Notes:

Returned to compliance on 12/08/2017.

Violation Description:

Failure to provide a copy of the business plan to the owner or the owner's agent within five working days after receiving a request for a copy from the owner or the owner's agent.

Evaluations

Eval Date: 07/19/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/01/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

owner refused reinspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/14/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/09/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection

Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

TERRY MASL, VICE PRESIDENT SIGEND INTO CERS AND GOT APPROVAL AT THE TIME OF INSPECTION. WILL SUBMIT MAP INVENTORY AND BUSINESS PLAN. COPY OF PREVIOUS SUBMITAL WAS PROVIDED TO TERRY MASL.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/08/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 09/09/2015
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

no CERS sign up.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/09/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

TERRY MASL, VICE PRESIDENT MANIFESTR PROVIDED HW WASTE LABEL WAS PROVIDED FOR FUTURE USE; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/16/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

NO CERS.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/19/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: Terry Masl
Entity Title:
Address: 1504-A Industrial Park St.
City: Covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Property Owner
Entity Name: Arce Industrial Properties
Entity Title:
Address:
City:
State:
Country: United States
Zip Code:
Phone: (626) 332-2914

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1504 INDUSTRIAL PARK ST #A
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: Dave C. Griffith
Entity Title:
Address: 1504 INDUSTRIAL PARK ST, #A
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (909) 946-1333

Affil Type Desc: Document Preparer
Entity Name: Terry Masl
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: David C. Griffith
Entity Title:
Address:
City:
State:
Country:
Zip Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone: (909) 946-1333

Affil Type Desc: Parent Corporation
Entity Name: MONTEREY MACHINE PRODUCTS
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
40	4 of 4	NNW	0.17 / 899.37	455.43 / 2	MONTEREY MACHINE PRODUCTS 1504 INDUSTRIAL PARK ST A COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014448
CERS ID: 10308448

Active Facility Details

PE: 3000

PE: 1002

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
41	1 of 2	NNW	0.17 / 900.47	455.45 / 2	MONTEREY MACHINE PRODUCTS 1504-A INDUSTRIAL PARK ST COVINA CA 91722-0000	RCRA TSD

EPA Handler ID: CAD983664996
Gen Status Universe: No Report
Contact Name: MONTEREY MACHINE PRODUCTS, INC
Contact Address: 1504-A INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-967-2242
Contact Email: MONTEREY.MACHINE@YAHOO.COM
Contact Country:
Land Type:
County Name: LOS ANGELES
EPA Region: 09
Receive Date: 19930419

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19930419
Handler Name: MONTEREY MACHINE PRODUCTS
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19930419
Handler Name: MONTEREY MACHINE PROD
Generator Status Universe: No Report
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: MONTEREY MACHINE PRODUCTS, INC
Date Became Current:
Date Ended Current:
Phone: 626-967-2242
Source Type: Implementer
Street No:
Street 1: 1504-A INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Owner
Type: Other
Name: EMIL URSA JR & DAVID GRIFFITH
Date Became Current:
Date Ended Current:
Phone: 909-948-1333
Source Type: Implementer
Street No:
Street 1: 7892 HENBANE ST ST
Street 2:
City: RANCHO CUCAMONGA
State: CA
Country:
Zip Code: 91739

Owner/Operator Ind: Current Owner
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Notification
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Historical Handler Details

Receive Dt: 19930419
Generator Code Description: Small Quantity Generator
Handler Name: MONTEREY MACHINE PROD

41	2 of 2	NNW	0.17 / 900.47	455.45 / 2	***MONTEREY MACHINE PRODUCTS*** ***1504-A INDUSTRIAL PARK ST*** ***COVINA CA 91722-0000***	***RCRA NON GEN***

EPA Handler ID: CAD983664996
Gen Status Universe: No Report
Contact Name: MONTEREY MACHINE PRODUCTS, INC
Contact Address: 1504-A INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-967-2242
Contact Email: MONTEREY.MACHINE@YAHOO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19930419

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19930419
Handler Name: MONTEREY MACHINE PRODUCTS
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19930419
Handler Name: MONTEREY MACHINE PROD
Generator Status Universe: No Report
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: EMIL URSA JR & DAVID GRIFFITH
Date Became Current:
Date Ended Current:
Phone: 909-948-1333
Source Type: Implementer
Street No:
Street 1: 7892 HENBANE ST ST
Street 2:
City: RANCHO CUCAMONGA
State: CA
Country:
Zip Code: 91739

Owner/Operator Ind: Current Operator
Type: Other
Name: MONTEREY MACHINE PRODUCTS, INC
Date Became Current:
Date Ended Current:
Phone: 626-967-2242
Source Type: Implementer
Street No:
Street 1: 1504-A INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Owner
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone: 415-555-1212 **Country:**
Source Type: Notification **Zip Code:** 99999

Historical Handler Details

Receive Dt: 19930419
Generator Code Description: Small Quantity Generator
Handler Name: MONTEREY MACHINE PROD

---

42 | ***1 of 1*** | ***NNW*** | ***0.17 / 901.09*** | ***455.45 / 2*** | ***1506 W INDUSTRIAL PARK ST #B COVINA CA 91722*** | ***LA HMS***

Site No: 022854
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031990
File Name: J&L PRECISION CO

---

43 | ***1 of 2*** | ***NNW*** | ***0.17 / 902.92*** | ***455.45 / 2*** | ***1508 W INDUSTRIAL PARK ST COVINA CA 91722*** | ***LA HMS***

Site No: 022855
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031991
File Name: MILLI FAB

---

43 | ***2 of 2*** | ***NNW*** | ***0.17 / 902.92*** | ***455.45 / 2*** | ***GUNSPORT PLUS 1508 W INDUSTRIAL PARK ST A COVINA CA 91722*** | ***LA COUNTY CUPA***

Facility ID: FA0014459
CERS ID: 0

Inactive Facility Details

PE: 3001

---

44 | ***1 of 2*** | ***NNW*** | ***0.17 / 904.88*** | ***455.45 / 2*** | ***1510 W INDUSTRIAL PARK ST COVINA CA 91722*** | ***LA HMS***

Site No: 022856
Area: 6B

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail Info

Permit No:		***Permit Status Code:***	
Permit Cat Desc:		***Permit Category:***	
Status Code:	OPEN	***File No:***	031992
Status Desc:	File Opened, no permit exists	***File Name:***	SUPERIOR TOOL & SUPPLY
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
44	2 of 2	NNW	0.17 / 904.88	455.45 / 2	MILLI-FAB INC. 1510 WEST INDUSTRIAL PARK STREET, UNIT A AND B COVINA CA 91722	FINDS/FRS

Registry ID:	110070617523
FIPS Code:	
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	06-OCT-2019 22:40:05
Update Date:	
Interest Types:	ICIS-NPDES UNPERMITTED
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070617523
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
45	1 of 4	E	0.13 / 690.80	466.43 / 13	SHELL SERVICE STATION 1274 W SAN BERNARDINO COVINA CA 91722-3510	FINDS/FRS

Registry ID:	110012231879
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	SAP 135210
Create Date:	01-MAR-2000 00:00:00
Update Date:	14-OCT-2015 12:32:31
Interest Types:	STATE MASTER, UNSPECIFIED UNIVERSE
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057022006
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08845
Longitude: -117.91625
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110012231879
Program Acronyms:

45	2 of 4	E	0.13 / 690.80	466.43 / 13	1274 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 022886
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032025
File Name: LARK ELLEN SHELL

45	3 of 4	E	0.13 / 690.80	466.43 / 13	1274 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 009668
Area: 6B

Detail Info

Permit No: 000227793
Permit Cat Desc: Underground Storage Tank
Status Code: REM
Status Desc: Equipment Removed
Permit Status Desc: Equipment Removed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: REM
Permit Category: T
File No: 026379
File Name: LARK ELLEN SHELL

Detail Info

Permit No: 00000687T
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Permit Closed
Permit Status Code: CLOS
Permit Category: T
File No: 009501
File Name: SHELL OIL #204-1854-1197

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Permit Type:		0				
Permit Type Desc:		Underground Storage Tank Operating Permit				
45	4 of 4	E	0.13 / 690.80	466.43 / 13	SHELL SERVICE STATION 1274 W SAN BERNARDINO SAP 135210 COVINA CA 91723	RCRA NON GEN

EPA Handler ID: CAR000105015
Gen Status Universe: No Report
Contact Name: TESSA BEMIS
Contact Address: 285 DELAWARE AVE STE 500 , , BUFFALO , NY, 14202 , US
Contact Phone No and Ext: 716-362-8847
Contact Email: TESSA.BEMIS@GHD.COM
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Private
Receive Date: 20181217

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20010910
Handler Name: SHELL SERVICE STATION
Generator Status Universe: No Report
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20181217
Handler Name: SHELL SERVICE STATION
Generator Status Universe: No Report

Source Type: Deactivation

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	P O BOX 2648
Name:	EQUILON ENTERPRISES L L C	**Street 2:**	
Date Became Current:		**City:**	HOUSTON
Date Ended Current:		**State:**	TX
Phone:	713-241-5036	**Country:**	
Source Type:	Notification	**Zip Code:**	77252-2648

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	P O BOX 2648
Name:	EQUILON ENTERPRISES L L C	**Street 2:**	
Date Became Current:		**City:**	HOUSTON
Date Ended Current:		**State:**	TX
Phone:	713-241-5036	**Country:**	US
Source Type:	Deactivation	**Zip Code:**	77252-2648

Historical Handler Details

Receive Dt: 20010910
Generator Code Description: Small Quantity Generator
Handler Name: SHELL SERVICE STATION

---

46 | **1 of 2** | **NNW** | **0.17 / 906.17** | **455.11 / 2** | **MILLI-FAB INC.**
1510-A INDUSTRIAL PARK ST.
COVINA CA 91722 | **RCRA NON GEN**

EPA Handler ID: CAC003002079
Gen Status Universe: No Report
Contact Name: STEVE O'BRYANT
Contact Address: 1510-A INDUSTRIAL PARK ST. , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-332-6197
Contact Email: MILLIFAB1@YAHOO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20190221

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190221
Handler Name: MILLI-FAB INC.
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: STEVE O'BRYANT
Date Became Current:
Date Ended Current:
Phone: 626-332-6197
Source Type: Implementer
Street No:
Street 1: 1510-A INDUSTRIAL PARK ST.
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Operator
Type: Other
Name: STEVE O'BRYANT
Date Became Current:
Date Ended Current:
Phone: 626-332-6197
Source Type: Implementer
Street No:
Street 1: 1510-A INDUSTRIAL PARK ST.
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
46	2 of 2	NNW	0.17 / 906.17	455.11 / 2	MILLI-FAB INC. 1510-A INDUSTRIAL PARK ST. COVINA CA 91722	FINDS/FRS

Registry ID: 110070535236
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 19-APR-2019 10:31:05
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 423510
NAICS Code Descriptions: METAL SERVICE CENTERS AND OTHER METAL MERCHANT WHOLESALERS.
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070535236
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
47	1 of 5	NNW	0.17 / 906.97	455.11 / 2	PHOTON SYSTEMS 1512 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110064918567
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-OCT-2015 07:22:43
Update Date:
Interest Types: ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER INDUSTRIAL
SIC Codes: 3826, 3845
SIC Code Descriptions: ELECTROMEDICAL AND ELECTROTHERAPEUTIC APPARATUS, LABORATORY ANALYTICAL INSTRUMENTS
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.091283
Longitude: -117.921861
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110064918567
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
47	2 of 5	NNW	0.17 / 906.97	455.11 / 2	PHOTON SYSTEMS 1512 INDUSTRIAL PARK ST COVINA CA 91722	CERS HAZ

Site ID: 143734
Latitude: 34.091240
Longitude: -117.921870
County: Los Angeles County

Regulated Programs

EI ID: 10292152 **EI Description:** Chemical Storage Facilities

EI ID: 10292152 **EI Description:** Hazardous Waste Generator

Violations

Violation Date: 04/04/2018 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 04/26/2018. OBSERVATION: Hazardous waste bottles inside flammable cabinets were observed without the accumulation start date on the labels. CORRECTIVE ACTION: Submit photos to the CUPA demonstrating that the hazardous waste containers have been properly

marked.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Evaluations

Eval Date: 01/10/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 01/10/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/26/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

MIKE REID NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/05/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

MIKE REID; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/01/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department

Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 04/01/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Legal Owner
Entity Name: RAY REID
Entity Title:
Address: 1512 INDUSTRIAL PARK ST
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-6431

Affil Type Desc: Parent Corporation
Entity Name: PHOTON SYSTEMS
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Document Preparer
Entity Name: KRIPA SIJAPATI
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: RAY REID
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 967-6431

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Environmental Contact

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name: RAY REID
Entity Title:
Address: 1512 INDUSTRIAL PARK STREET
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1512 INDUSTRIAL PARK ST
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Identification Signer
Entity Name: RAY REID
Entity Title: CHIEF OPERATING OFFICER
Address:
City:
State:
Country:
Zip Code:
Phone:

47	3 of 5	NNW	0.17 / 906.97	455.11 / 2	PHOTON SYSTEMS DBA 94 631 6007 1512 INDUSTRIAL PARK ST COVINA CA 91722	RCRA NON GEN

EPA Handler ID: CAL000286775
Gen Status Universe: No Report
Contact Name: RAY REID
Contact Address: 1512 INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-967-6431
Contact Email: K.SIJAPATI@PHOTONSYSTEMS.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20040927

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No

Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20040927
Handler Name: PHOTON SYSTEMS DBA 94 631 6007
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: PHOTON SYSTEMS
Date Became Current:
Date Ended Current:
Phone: 626-967-6431
Source Type: Implementer
Street No:
Street 1: 1512 INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722-0000

Owner/Operator Ind: Current Operator
Type: Other
Name: RAY REID
Date Became Current:
Date Ended Current:
Phone: 626-967-6431
Source Type: Implementer
Street No:
Street 1: 1512 INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

47	4 of 5	NNW	0.17 / 906.97	455.11 / 2	PHOTON SYSTEMS DBA 94 631 6007 1512 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110070454520
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 02-JAN-2019 14:21:36
Update Date:
Interest Types: TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 334516
NAICS Code Descriptions: ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING.
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070454520
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
47	5 of 5	NNW	0.17 / 906.97	455.11 / 2	PHOTON SYSTEMS 1512 INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0039492
CERS ID: 10292152

Active Facility Details

PE: 3001

PE: 1001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
48	1 of 3	NNW	0.17 / 909.18	455.11 / 2	1514 W INDUSTRIAL PARK ST #B COVINA CA 91722	LA HMS

Site No: 022857
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031993
File Name: VALLEY DIAMOND TOOL CO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
48	2 of 3	NNW	0.17 / 909.18	455.11 / 2	STEVENS THREAD GRINDING 1514 W INDUSTRIAL PARK ST A COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014460
CERS ID: 0

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
48	3 of 3	NNW	0.17 / 909.18	455.11 / 2	VALLEY DIAMOND TOOL CO 1514 W INDUSTRIAL PARK ST B COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014461
CERS ID: 0

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
49	1 of 1	NNW	0.17 / 910.60	455.11 / 2	PHOTON SYSTEMS, INC. 1512 AND 1514-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	FINDS/FRS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Registry ID: 110070621227
FIPS Code:
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 06-OCT-2019 23:11:02
Update Date:
Interest Types: ICIS-NPDES UNPERMITTED
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070621227
Program Acronyms:

50	1 of 1	NW	0.18 / 928.66	449.68 / -4	VINCENT AUTOMOTIVE 1680 W SAN BERNARDINO RD COVINA CA 91722	DELISTED TNK

Delisted Storage Tanks

Facility ID: 30317
County: Los Angeles
Permitting Agency: LOS ANGELES COUNTY
Original Source: UST
Record Date: 30-JAN-2017
Latitude: 34.090535
Longitude: -117.923679

51	1 of 1	NNW	0.17 / 911.51	454.45 / 1	1516 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No: 022858
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031994
File Name: HI TECH PRECISION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
52	1 of 2	W	0.11 / 584.50	436.98 / -16	120 N VINCENT AVE COVINA CA 91723	LA HMS

Site No: 015445
Area: 6B

Detail Info

Permit No: 000082071
Permit Cat Desc: Underground Storage Tank
Status Code: REM
Status Desc: Equipment Removed
Permit Status Desc: Equipment Removed
Permit Type: 1
Permit Type Desc: Underground Storage Tank Interim Permit
Permit Status Code: REM
Permit Category: T
File No: 016768
File Name: E-Z GAS

Detail Info

Permit No: 000292908
Permit Cat Desc: Underground Storage Tank
Status Code: REM
Status Desc: Equipment Removed
Permit Status Desc: Equipment Removed
Permit Type: 1
Permit Type Desc: Underground Storage Tank Interim Permit
Permit Status Code: REM
Permit Category: T
File No: 033081
File Name: E-Z GAS - 5 USTS NOT INSTALLED

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
52	2 of 2	W	0.11 / 584.50	436.98 / -16	TEXACO E-Z GAS 120 N VINCENT AVE COVINA CA 91723	LA COUNTY CUPA

Facility ID: FA0028419
CERS ID: 0

Inactive Facility Details

PE: 3001

PE: 7124

PE: 1001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
53	1 of 2	NNW	0.17 / 912.99	454.45 / 1	ALLEGIANCE BUSINESS CORP. DBA HI TECH PRECISION 1516-A W INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110070315657
FIPS Code:
HUC Code:
Site Type Name:
Location Description:
Supplemental Location:
Create Date: 27-SEP-2018 12:42:14
Update Date:
Interest Types: OSHA ESTABLISHMENT
SIC Codes: 3599
SIC Code Descriptions: INDUSTRIAL AND COMMERCIAL MACHINERY AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED
NAICS Codes: 332710
NAICS Code Descriptions: MACHINE SHOPS.
Conveyor:
Federal Facility Code:
Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070315657
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
53	2 of 2	NNW	0.17 / 912.99	454.45 / 1	5 BOY PRECISION MACHINING 1516-A WEST INDUSTRIAL PARK STREET COVINA CA 91722	FINDS/FRS

Registry ID:	110070621347
FIPS Code:	
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	06-OCT-2019 23:12:32
Update Date:	
Interest Types:	ICIS-NPDES UNPERMITTED
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070621347
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
54	1 of 1	NNW	0.17 / 914.44	454.45 / 1	1542 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No:	022864
Area:	6B

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032001
File Name: AZUSA ENGINEERING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
55	1 of 1	NNW	0.17 / 916.54	454.45 / 1	1520 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No: 022859
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031996
File Name: ZZ MANUFACTURING

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
56	1 of 5	NNW	0.17 / 922.06	454.43 / 1	1524 W INDUSTRIAL PARK ST #B COVINA CA 91722	LA HMS

Site No: 022860
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031997
File Name: CARBIDE SPECIALTIES CO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
56	2 of 5	NNW	0.17 / 922.06	454.43 / 1	DR JOHN'S MOTORCYCLE FRAME 1524 W INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014462
CERS ID: 0

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
56	3 of 5	NNW	0.17 / 922.06	454.43 / 1	CARBIDE SPECIALTIES CO 1524 INDUSTRIAL PARK ST B COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0043302
CERS ID: 10797901

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Inactive Facility Details

PE: 3001

56	*4 of 5*	*NNW*	*0.17 / 922.06*	*454.43 / 1*	*KG MACHINING* *1524 WEST INDUSTRIAL PARK STREET, UNIT A* *COVINA CA 91722*	*FINDS/FRS*

Registry ID: 110070617143
FIPS Code:
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 06-OCT-2019 22:37:52
Update Date:
Interest Types: ICIS-NPDES UNPERMITTED
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070617143
Program Acronyms:

56	*5 of 5*	*NNW*	*0.17 / 922.06*	*454.43 / 1*	*AB VACUUM MOLD DIE* *1524 WEST INDUSTRIAL PARK STREET* *COVINA CA 91722*	*FINDS/FRS*

Registry ID: 110070620373
FIPS Code:
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 06-OCT-2019 22:58:32
Update Date:
Interest Types: ICIS-NPDES UNPERMITTED
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070620373
Program Acronyms:

57	*1 of 3*	*NNW*	*0.18 / 924.99*	*454.39 / 1*	***1526 W INDUSTRIAL PARK ST COVINA CA 91722***	***LA HMS***

Site No: 022861
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 031998
File Name: AVALON INDUSTRIES

57	*2 of 3*	*NNW*	*0.18 / 924.99*	*454.39 / 1*	***SEA LAP LLC 1526 W INDUSTRIAL PARK ST COVINA CA 91722-3417***	***RCRA NON GEN***

EPA Handler ID: CAL000392144
Gen Status Universe: No Report
Contact Name: CURTIS MC PHERSON
Contact Address: 2100 ARROW HWY STE 110 , , LA VERNE , CA, 91750 ,
Contact Phone No and Ext: 626-332-2888
Contact Email: CURTIS@SEA-LAP.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20131219

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No

Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20131219
Handler Name:	SEA LAP LLC
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	2100 ARROW HWY STE 110
Name:	CURTIS MC PHERSON	***Street 2:***	
Date Became Current:		***City:***	LA VERNE
Date Ended Current:		***State:***	CA
Phone:	626-332-2888	***Country:***	
Source Type:	Implementer	***Zip Code:***	91750
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	6317 BIRDIE DR
Name:	SEA LAP LLC	***Street 2:***	
Date Became Current:		***City:***	LA VERNE
Date Ended Current:		***State:***	CA
Phone:	909-596-2063	***Country:***	
Source Type:	Implementer	***Zip Code:***	91750-1406

57	*3 of 3*	*NNW*	*0.18 / 924.99*	*454.39 / 1*	***SEA LAP LLC*** ***1526 W INDUSTRIAL PARK ST*** ***COVINA CA 91722-3417***	***FINDS/FRS***

Registry ID:	110070411924
FIPS Code:	06037
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	31-DEC-2018 17:05:28
Update Date:	
Interest Types:	TRANSPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	
Longitude:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070411924
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
58	1 of 3	ENE	0.14 / 713.94	466.42 / 13	7-ELEVEN INC. STORE #19251 1275 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110065028008
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-OCT-2015 08:30:32
Update Date:
Interest Types: STATE MASTER
SIC Codes: 5411
SIC Code Descriptions: GROCERY STORES
NAICS Codes: 445120
NAICS Code Descriptions: CONVENIENCE STORES.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057022004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08881
Longitude: -117.9162
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065028008
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
58	2 of 3	ENE	0.14 / 713.94	466.42 / 13	7-ELEVEN STORE #19251 1275 W SAN BERNARDINO RD COVINA CA 91722	CERS HAZ

Site ID: 1456
Latitude: 34.088772
Longitude: -117.916206
County: Los Angeles County

Regulated Programs

EI ID: 10286758 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 09/23/2016

Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Kamlersh Kumari, employee; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/07/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Property Owner
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: LICENSE RENEWAL DEPT.:3200 HACKBERRY ROAD
City: IRVING
State: TX
Country: United States
Zip Code: 75063
Phone: (972) 828-7578

Affil Type Desc: Parent Corporation
Entity Name: 7-ELEVEN CONVENIENCE STORES
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: QUENNY, INC.
Entity Title:
Address: 1275 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 966-4779

Affil Type Desc: Environmental Contact
Entity Name: BRENT SMERCZYNSKI
Entity Title:
Address: 3200 HACKBERRY ROAD
City: IRVING
State: TX
Country:
Zip Code: 75063
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Document Preparer
Entity Name: Stantec Consulting Services Inc.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1275 W SAN BERNARDINO RD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Identification Signer
Entity Name: BRENT SMERCZYNSKI
Entity Title: CORPORATE ASSET PROTECTION MANAGER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: QUENNY, INC.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 966-4779

Coordinates

Env Int Type Code: HMBP
Program ID: 10286758
Latitude: 34.088770
Longitude: -117.916210
Coord Name:
Ref Point Type Desc: Center of a facility or station.

58	3 of 3	ENE	0.14 / 713.94	466.42 / 13	7-ELEVEN INC. STORE #19251 1275 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0042505
CERS ID: 10286758

Active Facility Details

PE: 3000

59	1 of 4	NNW	0.18 / 930.67	454.45 / 1	KORDEN INC 1517 INDUSTRIAL PARK ST COVINA CA 91722	RCRA SQG

EPA Handler ID: CAD981390636
Gen Status Universe: Small Quantity Generator
Contact Name:
Contact Address: US
Contact Phone No and Ext:
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19960901

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860221
Handler Name: KORDEN INC
Generator Status Universe: Small Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19960901
Handler Name: KORDEN INC
Generator Status Universe: Small Quantity Generator
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Implementer

Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Owner/Operator Ind: Current Owner
Street No:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Type:	Private	**Street 1:**	NOT REQUIRED
Name:	BARJONA S MEEK	**Street 2:**	
Date Became Current:		**City:**	NOT REQUIRED
Date Ended Current:		**State:**	ME
Phone:	415-555-1212	**Country:**	
Source Type:	Notification	**Zip Code:**	99999

Historical Handler Details

Receive Dt:	19860221
Generator Code Description:	Large Quantity Generator
Handler Name:	KORDEN INC

---

59 *2 of 4* *NNW* *0.18 / 930.67* *454.45 / 1* **KORDEN INC**
1517 INDUSTRIAL PARK ST
COVINA CA 91722
FINDS/FRS

Registry ID:	110002691365
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	29-DEC-2014 08:54:27
Interest Types:	SQG
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	322223
NAICS Code Descriptions:	PLASTICS, FOIL, AND COATED PAPER BAG MANUFACTURING.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012000
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09128
Longitude:	-117.92149
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002691365
Program Acronyms:	

---

59 *3 of 4* *NNW* *0.18 / 930.67* *454.45 / 1* **METAL OFF. SALES INC**
1517 INDUSTRIAL PARK ST.
COVINA CA 91791
EMISSIONS

1987 Criteria Data

Facility ID:	20358	**CERR Code:**	
Facility SIC Code:	3444	**TOGT:**	8
CO:	19	**ROGT:**	7.744
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	0
COID:	LA	**SOXT:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

DISN: SOUTH COAST AQMD
CHAPIS:
PMT: .3
PM10T: .288

1987 Toxic Data

Facility ID: 20358
Facility SIC Code: 3444
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

---

59 | **4 of 4** | **NNW** | **0.18 / 930.67** | **454.45 / 1** | **NYLEX PLASTICS INC**
1517 INDUSTRIAL PARK ST
COVINA CA 91722 | **LA COUNTY CUPA**

Facility ID: FA0014451
CERS ID: 0

Inactive Facility Details

PE: 1001

PE: 3001

---

60 | **1 of 1** | **WNW** | **0.16 / 847.61** | **442.42 / -11** | **VINCENT ARCO**
1680 SAN BERNARDINO RD W
COVINA CA 91722 | **LUST**

Global ID: T0603705098
Status: COMPLETED - CASE CLOSED
Status Date: 1997-12-23 00:00:00
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites from GeoTracker Search; LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download
County: LOS ANGELES
Latitude: 34.089186
Longitude: -117.92502

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: R-12095
Local Case No:
Begin Date: 1997-02-27 00:00:00
Lead Agency: LOS ANGELES COUNTY
Local Agency: LOS ANGELES COUNTY
CUF Case: NO
Potential Media of Concern: Soil
How Discovered Description:
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
DWR GW Subbasin Name: San Gabriel Valley (4-013)
Disadvantaged Community:
Site History:
Potential COC: Other Solvent or Non-Petroleum Hydrocarbon
How Discovered:
Stop Method:
Stop Description:
Case Worker: JOA
File Location:

Regulatory Activity

Action Type: Other
Date : 1997-12-09 00:00:00
Action: Leak Reported

Action Type: Other
Date : 1997-02-27 00:00:00

Action: Leak Stopped

Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
City: Los Angeles
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
Email: yrong@waterboards.ca.gov
Phone No:

Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
City: ALHAMBRA
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
Email: jawujo@dpw.lacounty.gov
Phone No: 6264583507

Status History

Status: Completed - Case Closed
Status Date: 1997-12-23 00:00:00

Status: Open - Case Begin Date
Status Date: 1997-02-27 00:00:00

LUST Sites from GeoTracker Search - Regulatory Profile(as of Oct 31, 2019)

Site Facility Name: VINCENT ARCO
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
File Location:
Potential COC: OTHER SOLVENT OR NON-PETROLEUM HYDROCARBON
Facility Type:
Composting Method:
Address: 1680 SAN BERNARDINO RD W
City: COVINA
Zip: 91722
County: LOS ANGELES
CUF Claim:
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603705098
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 12/23/1997
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603705098&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Gabriel Valley (4-013)
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: LOS ANGELES COUNTY (LEAD)
CASEWORKER: JOHN AWUJO
LOS ANGELES RWQCB (REGION 4) - CASE #: R-12095
CASEWORKER: YUE RONG
Gndwater Monitoring Freque:
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History(as of Oct 31, 2019)

Status: Completed - Case Closed
Date : 12/23/1997

Status: Open - Case Begin Date
Date : 2/27/1997

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

LUST Sites from GeoTracker Search - Regulatory Activities(as of Oct 31, 2019)

Action Type: Leak Action
Action Date: 12/9/1997
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 2/27/1997
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

61	*1 of 3*	*NNW*	*0.18 / 931.20*	*454.39 / 1*	***1530 W INDUSTRIAL PARK ST #A COVINA CA 91722***	***LA HMS***

Site No: 026393
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 035949
File Name: G&D THREAD ROLLING 331-6027

61	*2 of 3*	*NNW*	*0.18 / 931.20*	*454.39 / 1*	***1530 W INDUSTRIAL PARK ST #B COVINA CA 91722***	***LA HMS***

Site No: 026394
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 035950
File Name: MOLDING WOOD WORKING

61	*3 of 3*	*NNW*	*0.18 / 931.20*	*454.39 / 1*	***1530 W INDUSTRIAL PARK ST COVINA CA 91722***	***LA HMS***

Site No: 022862
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Permit Status Code:
Permit Category:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
File No: 031999
File Name: VBS

---

62 | **1 of 1** | **WNW** | **0.16 / 850.74** | **442.42 / -11** | **N & M PROPERTY LLC**
1680 W SAN BERNARDINO RD
COVINA CA 91722 | **UST**

Facility ID: LACoFA0023036
CERS ID: 10275814
County: Los Angeles
Permitting Agency: Los Angeles County Fire Department
Note: Information related to facilities can be searched on Geo Tracker Website: https://geotracker.waterboards.ca.gov/search
Latitude: 34.08919
Longitude: -117.92503

---

63 | **1 of 1** | **NNW** | **0.18 / 937.88** | **453.70 / 0** | **1534 W INDUSTRIAL PARK ST**
COVINA CA 91722 | **LA HMS**

Site No: 022863
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032000
File Name: PBS TOOL

---

64 | **1 of 2** | **WSW** | **0.11 / 600.31** | **436.43 / -17** | **SCE LARK ELLEN SUBSTATION**
W BADILLO ST W OF VINCENT AVE
WEST COVINA CA 91790 | **LA COUNTY CUPA**

Facility ID: FA0046097
CERS ID: 10339369

Active Facility Details

PE: 3000

---

64 | **2 of 2** | **WSW** | **0.11 / 600.31** | **436.43 / -17** | **SCE LARK ELLEN SUBSTATION**
W BADILLO ST W OF VINCENT AVE
WEST COVINA CA 91790 | **LA COUNTY CUPA**

Facility ID: FA0046271
CERS ID: 0

Inactive Facility Details

PE: 3000

---

65 | **1 of 1** | **WNW** | **0.17 / 896.87** | **443.32 / -10** | **VINCENT ARCO**
1680 W. SAN BERNARDIND RD | **HHSS**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					VINCENT COVINA CA 91722	

County: Los Angeles
Pdf File Url: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028599.pdf

---

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	1 of 6	WNW	0.17 / 899.97	443.41 / -10	VINCENT ARCO 1680 W SAN BERNARDINO RD COVINA CA 91722	FINDS/FRS

Registry ID: 110064980668
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-OCT-2015 08:07:51
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012004
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08918
Longitude: -117.92502
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110064980668
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	2 of 6	WNW	0.17 / 899.97	443.41 / -10	EXPRESS AUTO REPAIR 1680 W SAN BERNARDINO RD # B COVINA CA 91722	FINDS/FRS

Registry ID: 110066053120
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 14-OCT-2015 09:40:18
Update Date:
Interest Types: STATE MASTER
SIC Codes: 7538
SIC Code Descriptions: GENERAL AUTOMOTIVE REPAIR SHOPS
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Congressional Dist No:	32
Census Block Code:	060374057012004
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.08918
Longitude:	-117.92502
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066053120
Program Acronyms:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	3 of 6	WNW	0.17 / 899.97	443.41 / -10	OAKWOOD MANAGEMENT GROUP, INC. 1680 W SAN BERNARDINO RD COVINA CA 91722	EMISSIONS

2015 Toxic Data

Facility ID:	166308	**COID:**	LA
Facility SIC Code:	5541	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Toxic Data

Facility ID:	166308	**TS:**	
Facility SIC Code:	5541	**HRA:**	
CERR CODE:		**CH Index:**	
COID:	LA	**AH Index:**	
CO:	19	**Air Basin:**	SC
DISN:	SOUTH COAST AQMD	**District:**	SC
CHAPIS:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	4 of 6	WNW	0.17 / 899.97	443.41 / -10	VINCENT ARCO 1680 W. SAN BERNARDINO ROAD COVINA CA	HIST TANK

Owner Name:	VINCENT ARCO	**No of Containers:**	4
Owner Street:	1680 W. SAN BERNARDINO ROAD	**County:**	LOS ANGELES
Owner City:	COVINA	**Facility State:**	CA
Owner State:	CA	**Facility Zip:**	91722
Owner Zip:	91722		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	5 of 6	WNW	0.17 / 899.97	443.41 / -10	COVINA ARCO NFM VENTURE INC 1680 W SAN BERNARDINO RD COVINA CA 91722	EMISSIONS

2017 Toxic Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID: 184729
Facility SIC Code: 5541
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

---

66 | 6 of 6 | WNW | 0.17 / 899.97 | 443.41 / -10 | NEMER SAAB, 1680 W SAN BERNARDINO RD, COVINA CA 91722 | FINDS/FRS

Registry ID: 110070583698
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 20-AUG-2019 16:32:53
Update Date:
Interest Types: TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes: 111110
NAICS Code Descriptions: SOYBEAN FARMING.
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070583698
Program Acronyms:

---

67 | 1 of 3 | NNW | 0.18 / 949.04 | 453.41 / 0 | 1560 W INDUSTRIAL PARK ST, COVINA CA 91722 | LA HMS

Site No: 009876
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: I09719
File Name: PACIFIC PACKAGING MACHINERY CO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail Info

Permit No:	00000998T	***Permit Status Code:***	REM
Permit Cat Desc:	Underground Storage Tank	***Permit Category:***	T
Status Code:	REM	***File No:***	009719
Status Desc:	Equipment Removed	***File Name:***	PACIFIC PACKAGING MACHINERY CO
Permit Status Desc:	Equipment Removed		
Permit Type:	0		
Permit Type Desc:	Underground Storage Tank Operating Permit		

67	*2 of 3*	*NNW*	*0.18 / 949.04*	*453.41 / 0*	***ALL AREA PLUMBING INC 1560 W INDUSTRIAL PARK ST COVINA CA 91722***	***FINDS/FRS***

Registry ID:	110065781023
FIPS Code:	
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	13-OCT-2015 14:39:00
Update Date:	
Interest Types:	STATE MASTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	32
Census Block Code:	060374057012003
EPA Region Code:	09
County Name:	LOS ANGELES
US/Mexico Border Ind:	
Latitude:	34.09072
Longitude:	-117.92244
Reference Point:	CENTER OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	30
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065781023
Program Acronyms:	

67	*3 of 3*	*NNW*	*0.18 / 949.04*	*453.41 / 0*	***ALL AREA PLUMBING INC 1560 W INDUSTRIAL PARK ST COVINA CA 91722***	***LA COUNTY CUPA***

Facility ID:	FA0014452
CERS ID:	10268827

Inactive Facility Details

PE:	3001
PE:	1002

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
68	1 of 1	WNW	0.15 / 797.26	440.84 / -13	318 N. VINCENT AVE COVINA CA 91722	CDL

Clue: 1997-05-109
Date: 5/24/1997
County: LOS ANGELES
Lab Type: L
Lab Type Description: Illegal Drug Lab - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
69	1 of 4	NNW	0.18 / 952.56	453.45 / 0	AZUSA ENGINEERING INC 1542 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110055724042
FIPS Code: 19
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 15-SEP-2013 11:54:59
Update Date: 14-OCT-2015 09:10:30
Interest Types: STATE MASTER, TRANSPORTER
SIC Codes: 5091
SIC Code Descriptions: SPORTING AND RECREATIONAL GOODS AND SUPPLIES
NAICS Codes: 421910
NAICS Code Descriptions: SPORTING AND RECREATIONAL GOODS AND SUPPLIES WHOLESALERS.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012003
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09072
Longitude: -117.92203
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055724042
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
69	2 of 4	NNW	0.18 / 952.56	453.45 / 0	AZUSA ENGINEERING INC 1542 INDUSTRIAL PARK ST COVINA CA 91722	CERS HAZ

Site ID: 387385
Latitude: 34.090720
Longitude: -117.922030
County: Los Angeles County

Regulated Programs

EI ID: 10295581 **EI Description:** Chemical Storage Facilities

EI ID: 10295581 **EI Description:** Hazardous Waste Generator

Evaluations

Eval Date: 02/13/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 04/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

NICK PATRONITE NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/13/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

NICK PATRONITE NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Document Preparer
Entity Name: THOMAS A. PATRONITE
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1542 INDUSTRIAL PARK ST
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Affil Type Desc:	Environmental Contact
Entity Name:	TOM PATRONITE
Entity Title:	
Address:	1542 W. INDUSTRIAL PARK ST.
City:	COVINA
State:	CA
Country:	
Zip Code:	91722
Phone:	

Affil Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	
Address:	5825 Rickenbacker Road
City:	Commerce
State:	CA
Country:	
Zip Code:	90040-3027
Phone:	(323) 890-4045

Affil Type Desc:	Legal Owner
Entity Name:	AZUSA ENGINEERING INC
Entity Title:	
Address:	1542 INDUSTRIAL PARK ST
City:	COVINA
State:	CA
Country:	United States
Zip Code:	91722
Phone:	(626) 967-4167

Affil Type Desc:	Operator
Entity Name:	THOMAS PATRONITE
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(626) 967-4167

Affil Type Desc:	Parent Corporation
Entity Name:	AZUSA ENGINEERING INC
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Identification Signer
Entity Name:	THOMAS A. PATRONITE
Entity Title:	CEO
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
69	3 of 4	NNW	0.18 / 952.56	453.45 / 0	AZUSA ENGINEERING INC 1542 INDUSTRIAL PARK ST COVINA CA 91722-3487	RCRA NON GEN

EPA Handler ID:	CAD981371529
Gen Status Universe:	No Report
Contact Name:	DAVID STILLWELL
Contact Address:	1542 INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,

Contact Phone No and Ext: 626-967-4167
Contact Email: DAVID@AZUSAENG.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19870410

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19870410
Handler Name: AZUSA ENGINEERING INC
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: AZUSA ENGINEERING INC
Date Became Current:
Date Ended Current:
Phone: 626-967-4167
Source Type: Implementer
Street No:
Street 1: 1542 INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722-3417

Owner/Operator Ind: Current Operator
Type: Other
Name: DAVID STILLWELL
Date Became Current:
Date Ended Current:
Phone: 626-967-4167
Source Type: Implementer
Street No:
Street 1: 1542 INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

69	4 of 4	NNW	0.18 / 952.56	453.45 / 0	AZUSA ENGINEERING INC 1542 INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014463
CERS ID: 10295581

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Active Facility Details

PE: 1001

PE: 3001

70	1 of 7	WNW	0.17 / 893.50	442.41 / -11	1680 W SAN BERNARDINO RD COVINA CA 917223410	LA HMS

Site No: 012012
Area: 6B

Detail Info

Permit No: 00003749T
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Equipment Removed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: REM
Permit Category: T
File No: 012095
File Name: VINCENT ARCO

Detail Info

Permit No: 000268603
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Permit Closed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: CLOS
Permit Category: T
File No: 030317
File Name: VINCENT AUTOMOTIVE

Detail Info

Permit No: 000670914
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Permit Closed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: CLOS
Permit Category: T
File No: 055348
File Name: VINCENT ARCO

Detail Info

Permit No: 000892819
Permit Cat Desc: Underground Storage Tank
Status Code: PERM
Status Desc: Equipment Permitted
Permit Status Desc: Equipment Permitted
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: PERM
Permit Category: T
File No: 063636
File Name: NFM VENTURE INC

Detail Info

Permit No: 0000T3749
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Permit Closed
Permit Status Code: CLOS
Permit Category: T
File No: 012095
File Name: VINCENT ARCO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit

Detail Info

Permit No: 000386997
Permit Cat Desc: Underground Storage Tank
Status Code: CLOS
Status Desc: Permit Closed
Permit Status Desc: Permit Closed
Permit Type: 0
Permit Type Desc: Underground Storage Tank Operating Permit
Permit Status Code: CLOS
Permit Category: T
File No: 040226
File Name: VINCENT ARCO

---

70 | **2 of 7** | **WNW** | **0.17 / 893.50** | **442.41 / -11** | **N & M PROPERTY LLC**
1680 W SAN BERNARDINO RD
COVINA CA 91722 | **CERS TANK**

Site ID: 406915
Latitude: 34.089188
Longitude: -117.925026
County: Los Angeles County

Regulated Programs

EI ID: 10275814
EI Description: Chemical Storage Facilities

EI ID: 10275814
EI Description: Underground Storage Tank

EI ID: 10275814
EI Description: Hazardous Waste Generator

Violations

Violation Date: 07/15/2015
Violation Program: UST
Violation Source: CERS
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure of sensor to be located in the proper position/location.

Violations

Violation Date: 07/15/2015
Violation Program: UST
Violation Source: CERS
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2637(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(e)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit a copy of the secondary containment test results to the CUPA within 30 days after the test.

Violations

Violation Date: 08/26/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2635(e)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2635(e)(8)
Violation Notes:

Violation Description:

Failure to submit as-built plans for the location and orientation of the tanks and appurtenant piping systems for new installations and/or with the permit application.

Violations

Violation Date: 07/15/2015
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.

Violations

Violation Date: 05/31/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2637(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(f)

Violation Notes:

Violation Description:

Failure to submit a copy of the secondary containment test results on the "Secondary Containment Testing report Form" to the UPA within 30 days after the test.

Violations

Violation Date: 06/04/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2716(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(f)
Violation Notes:

Violation Description:

"Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of Designated Operator inspection records as follows:

Designated operator monthly inspection records for inspections performed before October 1, 2018 must be kept for 12 months from the month of inspection.

For inspections performed on or after October 1, 2018, copies of the ""Designated Underground Storage Tank Operator Visual Inspection Report"" must be kept for 36 months from the month of inspection.
"

Violations

Violation Date: 06/04/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Notes:

Violation Description:

Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.

Violations

Violation Date: 06/04/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Notes:

Violation Description:

Failure to submit the "Underground Storage Tank Statement of Understanding and Compliance Form."

Violations

Violation Date: 05/31/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to have a UST Monitoring Plan available on site.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(b)(1) and (2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1) and (2)
Violation Notes:

Violation Description:

Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Violation Description:

Failure to retain a copy of the permit to operate at the facility.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Notes:

Violation Description:

Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(b)(1)(F) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(F)
Violation Notes:

Violation Description:

"Failure to conduct secondary containment testing, or one or more of the following requirements:

Perform the test of the secondary containment system upon installation, within six months of installation and every 36 months thereafter.

Perform the test of a secondary containment component within 30 days of a repair or discontinuing vacuum, pressure or hydrostatic monitoring.

Use a procedure that demonstrates the system works as well as at installation.
Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.

Performed by a certified service technician.

Maintain records of secondary containment testing for 36 months."

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)
Violation Notes:

Violation Description:

Failure to submit the "Designated Underground Storage Tank Operator Identification Form" within 30 days of installing a UST system or within 30 days of a change in DO.

Violations

Violation Date: 05/31/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.7 25291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(b)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Notes:

Violation Description:

Failure to comply with one or more of the following overfill prevention equipment requirements:
Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or
Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or
Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or
Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018.

For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter.

For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter.

Inspected within 30 days after a repair to the overfill prevention equipment.

Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer.

Inspected by a certified UST service technician.

Maintain records of overfill prevention equipment inspection for 36 months.

Violations

Violation Date: 07/15/2015
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

Violations

Violation Date: 07/15/2015
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2716(a) through (e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(a) through (e)
Violation Notes:

Violation Description:

For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements:
Be performed by an ICC certified DO.
Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy.
Inspect for the presence of liquid/debris in spill containers.
Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly.
Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit.
Check that all testing and maintenance has been completed and documented.
Verify that all facility employees have been trained in accordance with 23 CCR 2715(c).
For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violations

Violation Date: 07/15/2015 **Violation Source:** CERS
Violation Program: UST **Violation Division:** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit, obtain approval, or maintain a complete/accurate plot plan.

Violations

Violation Date: 07/15/2015 **Violation Source:** CERS
Violation Program: UST **Violation Division:** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to maintain on site an approved monitoring plan.

Violations

Violation Date: 05/15/2017 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Notes:

Violation Description:

Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violations

Violation Date: 06/04/2019 **Violation Source:** CERS
Violation Program: UST **Violation Division:** Los Angeles County Department of Public Works
Citation: HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Notes:

Violation Description:

Failure to maintain UST records in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.

Violations

Violation Date: 05/31/2019 **Violation Source:** CERS
Violation Program: UST **Violation Division:** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2636(f)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(4)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: The monitoring

system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC).

Violations

Violation Date: 07/15/2015
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit, maintain, or implement an owner/operator written agreement.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.7 25284(a)(3)(A) & (B); - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)(A) & (B);
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to implement or maintain a written agreement between the UST permit holder and the operator (owner/operator agreement).

Violations

Violation Date: 06/04/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Notes:

Violation Description:

Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.

Violations

Violation Date: 05/31/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2632(c)(2)(B), 2634(d)(1)(a), 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(c)(2)(B), 2634(d)(1)(a), 2636(f)(1)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure of the leak detection equipment to have an audible and visual alarm as required.

Violations

Violation Date: 06/04/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: HSC 6.7 25284(a)(3)(A)&(B) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)(A)&(B)
Violation Notes:

Violation Description:

Failure to implement or maintain a written agreement between the UST owner and operator.

Violations

Violation Date: 05/15/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Los Angeles County Fire Department
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Notes:

Returned to compliance on 01/05/2018. OBSERVATION: The generator has not obtained an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have obtained an EPA ID number.

Violation Description:

Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violations

Violation Date: 05/31/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: HSC 6.7 25299(a)(9) - California Health and Safety Code, Chapter 6.7, Section(s) 25299(a)(9)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak.

Violations

Violation Date: 07/15/2015 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Failure to submit, obtain approval, or maintain a complete/accurate response plan.

Violations

Violation Date: 07/13/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Los Angeles County Department of Public Works
Citation: HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),

25290.2(c)(3)

Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.

Violations

Violation Date: 05/31/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2632(c)(2)(A)&(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(c)(2)(A)&(B)
Violation Notes:

Returned to compliance on 06/13/2019.

Violation Description:

Failure to continuously monitor the interstitial space of a double-walled tank with an audible and visual alarm system.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to have an approved UST Monitoring Plan.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to submit or update a plot plan.

Violations

Violation Date: 07/13/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Notes:

Returned to compliance on 01/17/2019.

Violation Description:

Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.

Violations

Violation Date: 07/15/2015
Violation Source: CERS
Violation Program: UST
Violation Division: Los Angeles County Department of Public Works
Citation: HSC 6.7 25299(a)(9) - California Health and Safety Code, Chapter 6.7, Section(s) 25299(a)(9)
Violation Notes:

Returned to compliance on 08/11/2015.

Violation Description:

Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak.

Violations

Violation Date: 05/15/2017
Violation Source: CERS
Violation Program: HMRRP
Violation Division: Los Angeles County Fire Department
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 07/20/2017. OBSERVATION: The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. CORRECTIVE ACTION: Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Evaluations

Eval Date: 05/15/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Mary Cabanilla, manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 05/15/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Mary Cabnillo, manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/05/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency

Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Current EPA # no longer required. Notice abated.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/04/2019
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

NOVC:CERS,USTS ARENT BEING MONITORED.NO UST DOCS@SITE,NEED SCTR RSLTFROM 032818,TOVFL PASTDUE,NO D.O.RPTS.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/05/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 08/26/2019
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

AS-BUILTS REQ'D TO SHOW DSL VENT LINE CONNECTING TO SEPERATE VSUMP, & PROD PIPING LAYOUT FOR 87E &91 INCORRECT ON PLANS.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/16/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

RECORDS COMPLETE, IN CERS, VEEDER-ROOT STATING ALL NORMAL, ALL SUMPSAND UDC'S CLEAN/DRY, SENSORS AT LOWEST POINTS AND CORRECT.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/14/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

SENSORS IN PLACE AND OPERATING PROPERLY; SUMPS/UDCS/SPBKS WERE ALL DRY AND CLEAN; DOCUMENTS AND CERFIFICATIONS WERE ONSITE/CERS/HMS.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 05/31/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

NOVC:PUMP USTS&APPLY FOR TEMP CLSR,USTS ARENT BEING MONITORED.NO USTDOCS @SITE,CERS,NEED SCTR RSLTS 032818, TOVFL PASTDUE,NO D.O.RPTS; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/14/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/28/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

filledl the EPA application with cashier and it will be faxed.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/15/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

(011215),RELOC 208 SNSRS TO LW PT/VRTICAL(87 TSUMPS,DSL FSUMP),BOOT DRAINPORTS TO 6OCLK(87W&91 TUMPS),SEAL OPEN PTS ON SUMP ELEC CONDUIT; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/13/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

NOVC:CERS-FACLTY, TANK, MONITRN PLN, PLOT PLAN, OWNR-OPERTR AGRMNT. LIQ-87 EAST STP SUMP,UDC#5/6,#9/10. ELEC PLUGS MSSNG-UDC 3/4, & 7/8.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/14/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/20/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/09/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS
Eval Notes:

1 SAMPLE TAKEN UNDER OF 5 DISPENSERS; 2 SAMPLES TAKEN UNDER TWO PIPING RUNS. PIPING AND UDCS TO BE REMOVED AND REPLACED PER PERMIT; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: UST Tank Owner
Entity Name: N & M PROPERTY LLC
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-8050

Affil Type Desc: Document Preparer
Entity Name: PEYMAN NASABI
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: UST Tank Operator
Entity Name: NFM VENTURE INC
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-8050

Affil Type Desc: Parent Corporation
Entity Name: NFM ARCO

Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: UST Property Owner Name
Entity Name: N & M PROPERTY LLC
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-8050

Affil Type Desc: Environmental Contact
Entity Name: NEMER SAAB
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: NEMER SAAB SALEH
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-8050

Affil Type Desc: Identification Signer
Entity Name: NEMER SAAB
Entity Title: OWNER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: NEMER SAAB
Entity Title:
Address: 1680 W SAN BERNARDINO RD
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 967-8050

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Operator

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name: NFM VENTURE INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (323) 360-5345

Affil Type Desc: UST Permit Applicant
Entity Name: Mehran Mike Verdi
Entity Title: Managing Partner/Operator
Address:
City:
State:
Country:
Zip Code:
Phone: (213) 243-1414

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
70	3 of 7	WNW	0.17 / 893.50	442.41 / -11	EXPRESS AUTO REPAIR 1680 W SAN BERNARDINO RD # B COVINA CA 91722	CERS HAZ

Site ID: 29149
Latitude: 34.089190
Longitude: -117.925030
County: Los Angeles County

Regulated Programs

EI ID: 10284451 **EI Description:** Hazardous Waste Generator

EI ID: 10284451 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 08/18/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Felix Pineda, owner; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/04/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/18/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Felix Pineda, owner; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/04/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Parent Corporation
Entity Name: EXPRESS AUTO REPAIR
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: FELIX PINEDA
Entity Title:
Address: 1680 W SAN BERNARDINO RD #B
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 331-9764

Affil Type Desc: Operator
Entity Name: FELIX PINEDA
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 482-6518

Affil Type Desc: Environmental Contact
Entity Name: ALL PHASE ENVIROMENTAL
Entity Title:
Address: 200 N ALAMEDA ST
City: COMPTON
State: CA
Country:
Zip Code: 90222
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1680 W SAN BERNARDINO RD #B
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
70	4 of 7	WNW	0.17 / 893.50	442.41 / -11	N & M PROPERTY LLC 1680 W SAN BERNARDINO RD COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0023036
CERS ID: 10275814

Active Facility Details

PE: 3003

PE: 1001

PE: 7124

Inactive Facility Details

PE: 7124

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
70	5 of 7	WNW	0.17 / 893.50	442.41 / -11	EXPRESS AUTO REPAIR 1680 W SAN BERNARDINO RD B COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0041719
CERS ID: 10284451

Inactive Facility Details

PE: 3000

PE: 1000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
70	6 of 7	WNW	0.17 / 893.50	442.41 / -11	NEMER SAAB 1680 W SAN BERNARDINO RD COVINA CA 91722	RCRA TSD

EPA Handler ID: CAC003019843
Gen Status Universe: No Report
Contact Name: NEMER SAAB
Contact Address: 6903 WOODARD AVE , , BELL , CA, 90201 ,
Contact Phone No and Ext: 323-360-5345
Contact Email: NEMERSAAB1986@HOTMAIL.COM
Contact Country:
Land Type:
County Name: LOS ANGELES
EPA Region: 09
Receive Date: 20190614

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190614
Handler Name:	NEMER SAAB
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	6903 WOODARD AVE
Name:	NEMER SAAB	***Street 2:***	
Date Became Current:		***City:***	BELL
Date Ended Current:		***State:***	CA
Phone:	323-360-5345	***Country:***	
Source Type:	Implementer	***Zip Code:***	90201

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	6903 WOODARD AVE
Name:	NEMER SAAB	***Street 2:***	
Date Became Current:		***City:***	BELL
Date Ended Current:		***State:***	CA
Phone:	323-236-5851	***Country:***	
Source Type:	Implementer	***Zip Code:***	90201

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
70	7 of 7	WNW	0.17 / 893.50	442.41 / -11	NEMER SAAB 1680 W SAN BERNARDINO RD COVINA CA 91722	RCRA NON GEN

EPA Handler ID:	CAC003019843
Gen Status Universe:	No Report
Contact Name:	NEMER SAAB
Contact Address:	6903 WOODARD AVE , , BELL , CA, 90201 ,
Contact Phone No and Ext:	323-360-5345
Contact Email:	NEMERSAAB1986@HOTMAIL.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20190614

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190614
Handler Name:	NEMER SAAB
Generator Status Universe:	No Report
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	6903 WOODARD AVE
Name:	NEMER SAAB	***Street 2:***	
Date Became Current:		***City:***	BELL
Date Ended Current:		***State:***	CA
Phone:	323-360-5345	***Country:***	
Source Type:	Implementer	***Zip Code:***	90201
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	6903 WOODARD AVE
Name:	NEMER SAAB	***Street 2:***	
Date Became Current:		***City:***	BELL
Date Ended Current:		***State:***	CA
Phone:	323-236-5851	***Country:***	
Source Type:	Implementer	***Zip Code:***	90201

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
71	*1 of 3*	*W*	*0.12 / 653.67*	*436.47 / -17*	***7-ELEVEN INC.STORE #22548*** ***105 N VINCENT AVE*** ***COVINA CA 91722***	***FINDS/FRS***

Registry ID:	110066001196
FIPS Code:	
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	14-OCT-2015 09:25:15
Update Date:	
Interest Types:	STATE MASTER
SIC Codes:	5411
SIC Code Descriptions:	GROCERY STORES
NAICS Codes:	445120
NAICS Code Descriptions:	CONVENIENCE STORES.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374054002007
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.08689
Longitude: -117.92584
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066001196
Program Acronyms:

71	2 of 3	W	0.12 / 653.67	436.47 / -17	7-ELEVEN INC. STORE #22548 105 N VINCENT AVE COVINA CA 91722	CERS HAZ

Site ID: 1631
Latitude: 34.086891
Longitude: -117.925850
County: Los Angeles County

Regulated Programs

EI ID: 10462672 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 07/15/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Singh Ammy, employee; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Document Preparer
Entity Name: Stantec Consulting Services Inc.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: LICENSE RENEWAL DEPT.:3200 HACKBERRY ROAD
City: IRVING
State: TX
Country: United States

Zip Code:	75063
Phone:	(972) 828-7578
Affil Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	
Address:	5825 Rickenbacker Road
City:	Commerce
State:	CA
Country:	
Zip Code:	90040-3027
Phone:	(323) 890-4045
Affil Type Desc:	Parent Corporation
Entity Name:	7-ELEVEN CONVENIENCE STORES
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	
Affil Type Desc:	Environmental Contact
Entity Name:	BRENT SMERCZYNSKI
Entity Title:	
Address:	3200 HACKBERRY ROAD
City:	IRVING
State:	TX
Country:	
Zip Code:	75063
Phone:	
Affil Type Desc:	Legal Owner
Entity Name:	BALDEV SINGH
Entity Title:	
Address:	105 N VINCENT AVE
City:	COVINA
State:	CA
Country:	United States
Zip Code:	91722
Phone:	(626) 960-9066
Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	105 N VINCENT AVE
City:	COVINA
State:	CA
Country:	
Zip Code:	91722
Phone:	
Affil Type Desc:	Operator
Entity Name:	BALDEV SINGH
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(626) 960-9066
Affil Type Desc:	Identification Signer
Entity Name:	BRENT SMERCZYNSKI
Entity Title:	CORPORATE ASSET PROTECTION MANAGER
Address:	
City:	
State:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-117.925840
Program ID:	10462672	**Coord Name:**	
Latitude:	34.086890	**Ref Point Type Desc:**	Center of a facility or station.

71	3 of 3	W	0.12 / 653.67	436.47 / -17	7-ELEVEN INC.STORE #22548 105 N VINCENT AVE WEST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0028418
CERS ID: 10462672

Active Facility Details

PE: 3000

72	1 of 2	NNW	0.19 / 985.10	453.19 / 0	STEMCYTE 1589 W INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110057066678
FIPS Code: 19
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 24-FEB-2014 10:15:23
Update Date: 13-OCT-2015 12:43:35
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09175
Longitude: -117.92264
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110057066678
Program Acronyms:

72	2 of 2	NNW	0.19 / 985.10	453.19 / 0	STEMCYTE 1589 W INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Facility ID:		FA0042229				
CERS ID:		10272133				
Inactive Facility Details						
PE:		3003				
73	1 of 1	NNW	0.19 / 986.99	453.19 / 0	MEDSEP CORP 1551 INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA
Facility ID:		FA0014464				
CERS ID:		10797823				
Inactive Facility Details						
PE:		3003				
PE:		1003				
74	1 of 4	WNW	0.15 / 792.62	439.98 / -13	99 CENTS ONLY STORES #103 321 N VINCENT AVE COVINA CA 91722	FINDS/FRS
Registry ID:		110066003773				
FIPS Code:						
HUC Code:		18070106				
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		14-OCT-2015 09:26:05				
Update Date:						
Interest Types:		STATE MASTER				
SIC Codes:		5331				
SIC Code Descriptions:		VARIETY STORES				
NAICS Codes:		445110				
NAICS Code Descriptions:		SUPERMARKETS AND OTHER GROCERY (EXCEPT CONVENIENCE) STORES.				
Conveyor:		FRS-GEOCODE				
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:		32				
Census Block Code:		060374054002007				
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:		34.08848				
Longitude:		-117.92625				
Reference Point:		CENTER OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		30				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066003773				
Program Acronyms:						
74	2 of 4	WNW	0.15 / 792.62	439.98 / -13	99 CENTS ONLY STORES 321 N VINCENT AVE COVINA CA 91722-3905	RCRA NON GEN
EPA Handler ID:		CAL000363245				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Gen Status Universe: No Report
Contact Name: EDGAR FLORES
Contact Address: 4000 UNION PACIFIC AVE , , COMMERCE , CA, 90023 ,
Contact Phone No and Ext: 323-919-3290
Contact Email: EDGAR.FLORES@99ONLY.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20110421

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20110421
Handler Name: 99 CENTS ONLY STORES
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: 99 CENTS ONLY STORES
Date Became Current:
Date Ended Current:
Phone: 323-980-8145
Source Type: Implementer
Street No:
Street 1: 4000 UNION PACIFIC AVENUE
Street 2:
City: COMMERCE
State: CA
Country:
Zip Code: 90023

Owner/Operator Ind: Current Operator
Type: Other
Name: EDGAR FLORES
Date Became Current:
Date Ended Current:
Phone: 323-919-3290
Source Type: Implementer
Street No:
Street 1: 4000 UNION PACIFIC AVE
Street 2:
City: COMMERCE
State: CA
Country:
Zip Code: 90023

74	3 of 4	WNW	0.15 / 792.62	439.98 / -13	99 CENTS ONLY STORES 321 N VINCENT AVE COVINA CA 91722-3905	FINDS/FRS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Registry ID: 110070476146
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 02-JAN-2019 20:38:00
Update Date:
Interest Types: TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070476146
Program Acronyms:

74	4 of 4	WNW	0.15 / 792.62	439.98 / -13	99 CENTS ONLY STORE #103 321 N VINCENT AVE COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0028423
CERS ID: 10284688

Inactive Facility Details

PE: 1001

PE: 3000

75	1 of 1	ENE	0.15 / 790.16	467.42 / 14	1269 W SAN BERNARDINO RD COVINA CA 91722	LA HMS

Site No: 022885
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032024
File Name: CHIEF AUTO PARTS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
76	1 of 4	NW	0.20 / 1,066.96	451.26 / -2	1630 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No: 013552
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: I13938
File Name: MEDSEP CORP

Detail Info

Permit No:
Permit Cat Desc:
Status Code: REM
Status Desc: Equipment Removed
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 013938
File Name: CUTTER LABORATORY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
76	2 of 4	NW	0.20 / 1,066.96	451.26 / -2	HAEMONETICS MANUFACTURING INC 1630 W INDUSTRIAL PARK ST COVINA CA 91722	CERS HAZ

Site ID: 121326
Latitude: 34.090729
Longitude: -117.923470
County: Los Angeles County

Regulated Programs

EI ID: 10284646
EI Description: Chemical Storage Facilities

EI ID: 10284646
EI Description: Hazardous Waste Generator

Violations

Violation Date: 11/16/2015
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 02/17/2016. update the map to show fire extinguisher.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 11/16/2015
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Los Angeles County Fire Department

Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 02/17/2016. OBSERVATION: update Hazardous Materials Inventory for propne, solide wast] to the CUPA. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 11/16/2015 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 02/17/2016. OBSERVATION: The business plan has not been updated and submitted to the CUPA within 30 days . CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS).

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Evaluations

Eval Date: 11/16/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Michale Volpone, HSE manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/16/2015
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

cers issue resolved; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/17/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 05/08/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency

Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

HUAN CHAU NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/10/2015
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

CERS SUBMITTED.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 05/08/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

THUAN CHAU NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/16/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Michale Volpone, HSE manager; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Environmental Contact
Entity Name: Thuan Chau
Entity Title:
Address: 1630 West Industrial Park
City: Covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Address: 1630 Industrial Park st.
City: Covina
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Legal Owner
Entity Name: Haemonetics Manufacturing Inc.
Entity Title:
Address: 1630 West Industrial Park st.
City: Covina
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 339-7388

Affil Type Desc: Identification Signer
Entity Name: Thuan Chau
Entity Title: Sr. Facilities Engineer
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Document Preparer
Entity Name: Thuan Chau
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: HAEMONETICS MANUFACTURING INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code: HWG
Program ID: 10284646
Latitude: 34.090730
Longitude: -117.923470
Coord Name:
Ref Point Type Desc: Center of a facility or station.

76	3 of 4	NW	0.20 / 1,066.96	451.26 / -2	1630 W INDUSTRIAL PARK STREET COVINA CA	HMIRS

Incident County: LOS ANGELES

76	4 of 4	NW	0.20 / 1,066.96	451.26 / -2	1630 W INDUSTRIAL PARK STREET COVINA CA	HMIRS

Incident County: LOS ANGELES

HMIR Incident Reports

Report No:	I-2018020097	***Fed DOT Agency Nm:***	
Report Type:	A hazardous material incident	***Fed DOT Report No:***	
Date of Incident:	2018-01-30	***Report Submit Src:***	Paper
Time of Incident:	0930	***Inc Multiple Rows:***	No
Haz Class Code:		***Inc Non US State:***	
Hazardous Class:	6.2	***Mode Transport:***	Air
Commodity Short Nm:	BIOLOGICAL SUBSTANCE, CA	***Transport Phase:***	In Transit
Commodity Long Nm:	BIOLOGICAL SUBSTANCE, CATEGORY B	***Incident Occrrnce:***	SORT CENTER
Trade Name:		***Mat Ship Approval?:***	No
ID No:	UN3373	***Mat Ship Approv No:***	
Haz Waste Ind:	No	***Undecl Hazmat Ship?:***	No
Haz Waste EPA No:		***Packaging Type:***	Non-Bulk
HMIS Tox Inhalation?:	No	***Packing Group:***	
TIH Hazard Zone:		***Carrier Reporter:***	FEDERAL EXPRESS CORPORATION
Qty Released:	0.007925	***CR Street Name:***	3670 HACKS CROSS RD G
Unit of Measure:	Liquid - Gallon	***CR City:***	MEMPHIS
What Failed:	129	***CR State:***	TN
What Failed Desc:	Inner Receptacle	***CR Postal Code:***	38125-8800
How Failed Code:	308	***CR Non US State:***	
How Failed Desc:	Leaked	***CR Fed DOT ID:***	462336
Failure Cause Code:		***CR Hazmat Reg ID:***	061317554056Z
Failure Cause Desc:		***CR Country:***	US
Ident. Markings:		***Shipper Name:***	KRANKENHAUS PORZ AM RHEIN
Cont1 Pkging Type:	Box	***Shipper Street Name:***	URBA CHER WEG 19
Cont1 Const Mat:	Fiberboard	***Shipper City:***	COLOGNE
Cont1 Head Type:		***Shipper State:***	
Cont1 Pkg Capacity:	0.26418	***Shipper Postal:***	51149
C1 Capacity UOM:	LGA	***Shipper Non US St:***	
Cont1 Pkg Amt:	0.26418	***Shipper Country:***	GERMANY
C1 Pkg Amt UOM:	LGA	***Shipper Waybill:***	771342920702
Cont1 Pkg No:	1	***Ship Hazmat Reg ID:***	
C1 Pkg NO Failed:	1	***Origin City:***	
Cont1 Pkg Mnfctr:		***Origin State:***	
Cont1 Pkg Mnfct Dt:	0-00-00 00:00:00	***Origin Postal:***	
Cont1 Pkg Serial NO:		***Origin Non US St:***	
C1 Pkg Last Test Dt:	0-00-00 00:00:00	***Origin Country:***	
C1 Test Const Mat:	Fiberboard	***Destination City:***	COVINA
C1 Pkg Dsign Pres.:	0	***Destination State:***	CALIFORNIA
C1 Dsign Press UOM:		***Destination Postal:***	91722
C1 Pkg Shell Thick:	0	***Destination Non US:***	
C1 Shell Thick UOM:		***Destination Country:***	US
C1 Head Thickness:	0	***Cont2 Package Type:***	Bottle
C1 Head Thick UOM:		***Cont2 Const Mat:***	Plastic
C1 Pkg Srvc Pres.:	0	***Cont2 Pkg Capacity:***	1
C1 Srvc Press UOM:		***Cont2 Capacity UOM:***	LLT
C1 Valve/Device Fail?:	No	***Cont2 Pkg Amount:***	1
C1 Device Type:		***Cont2 Pkg Amt UOM:***	LLT
C1 Device Mnfctr:		***Cont2 Pkg No:***	1
C1 Device Model:		***Cont2 Pkg No Failed:***	1
NRC No:			

RAM Pkg Category:		***Haz NonHosp Public:***	0
RAM Pkg Cert.:	FALSE	***Haz NonHosp Old:***	
RAM Pkg Cert. NBR:		***Tot Haz Non Hosp Inj:***	
RAM Nuclide S:		***Total Hazmat Injuries:***	0
RAM Transport Index:		***Evacuation Indicator:***	No
RAM UOM:		***Public Evacuated:***	0
RAM Activity Rpted:	0	***Employees Evac:***	0
RAM UOM Rpted:		***Total Evacuated:***	0
RAM Activity:	0	***Total Evacuation Hrs:***	0
RAM Activity UOM:		***Major Artery Closed:***	No
RAM Mat Safety:		***Mjr Artery Hrs Closed:***	0
Spillage Result:	Yes	***Material Involved:***	No
Fire Result:	No	***Estimated Speed:***	0
Explosion Result:	No	***Weather Conditions:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Water Sewer Result:	No	**Vehicle Overturn:**	No
Gas Dispersion:	No	**Vehicle Left Roadway:**	No
Environment Damage:	No	**Passenger Aircraft:**	No
No Release Result:	No	**Cargo Baggage:**	
Fire EMS Report:	No	**Ship Non Transport:**	No
Fire EMS EMS Report:		**Ship Air First Flight:**	No
Police Report:	No	**Ship Air Subflight:**	No
Police Report No:		**Ship Init Transport:**	No
In House Cleanup:	Yes	**Ship Phase Transfer:**	Yes
Other Cleanup:	No	**Contact Name:**	TERESA M DAVIS
Damage > 500:	No	**Contact Title:**	SR. SAFETY SPECIALIST
Material Loss:	0	**Contact Business:**	FEDERAL EXPRESS CORPORATION
Carrier Damage:	0	**Contact Street:**	3670 HACKS CROSS ROAD
Property Damage:	0	**Contact City:**	MEMPHIS
Response Cost:	0	**Contact State:**	TN
Remediation Cost:	0	**Contact Postal:**	38125
Damage Old Form:	0	**Contact Non US St:**	
Total Damages Amt:	0	**Contact Country:**	US
Hazmat Fatality:	No	**Inc. Report Prepared:**	Carrier
Haz Fatal Employees:	0	**HMIS Serious Incidnt:**	No
Haz Fatal Respndrs:	0	**HMIS Serious Fatality:**	No
Haz Fatal Gen Public:	0	**HMIS Serious Injury:**	No
Tot Hazmat Fatalities:	0	**HMIS Flight Plan:**	No
Non Hazmat Fatality:	No	**HMIS Serious Evacs:**	No
Non Hazmat Fatals:	0	**HMIS Major Artery:**	No
Hazmat Injury:	No	**HMIS Bulk Release:**	No
Haz Hospital Empl:	0	**HMIS Marine Pollutnt:**	No
Haz Hospital Resp:	0	**HMIS Radioactive:**	No
Haz Hosp Gen Public:	0	**HMIS Gen Pkg Type:**	BOX FIBER
Haz Hosp Old Form:	0	**HMIS Container Code:**	4G
Total Haz Hosp Inj:	0	**HMIS Container Desc:**	Fiberboard box
Haz Non Hosp Empl:	0	**HMIS Bulk Incident:**	No
Haz Non Hosp Resp:	0	**Undeclared Shipment:**	No

Description of Events: THE DELIVERY COURIER WAS AT THE RECIPIENT DESTINATION WHEN HE NOTICED THE PACKAGE WAS LEAKING. MANAGEMENT SENT THE SPILL SPECIALIST TO THE VEHICLE TO PERFORM SPILL CLEANUP AND TO CONTAIN THE PACKAGE IN A FED-EX SALVAGE DRUM. THE BLOOD DID NOT SPILL ON THE EMPLOYEE. CAUSE OF SPILL UNKNOWN.

Recommend Actions Taken: NO COMMENTS PROVIDED.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
77	1 of 1	WNW	0.19 / 987.87	441.47 / -12	CUMMINGS FLOWERS 443 N VINCENT AVE COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0028417
CERS ID: 0

Inactive Facility Details

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
78	1 of 1	WNW	0.21 / 1,084.48	442.42 / -11	SES AUTO SERVICE 526N N VINCENT AVE COVINA CA 91722	FINDS/FRS

Registry ID: 110065328498
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-2015 07:10:37
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

NAICS Code Descriptions:
Conveyor: CALEPA
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012003
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09018
Longitude: -117.92503
Reference Point:
Coord Collection Method: THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON ADDRESS MATCHING
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065328498
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
79	1 of 1	NW	0.22 / 1,184.88	449.43 / -4	1629 W INDUSTRIAL PARK ST COVINA CA 91722	LA HMS

Site No: 022865
Area: 6B

Detail Info

Permit No:
Permit Cat Desc:
Status Code: OPEN
Status Desc: File Opened, no permit exists
Permit Status Desc:
Permit Type:
Permit Type Desc:
Permit Status Code:
Permit Category:
File No: 032002
File Name: AM-MARK LABEL INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
80	1 of 3	SE	0.21 / 1,097.06	451.42 / -2	HONEYWELL INC -- WEST COVINA CA 917900000	ENVIROSTOR

Estor/EPA ID: CAD008351827
Site Code: 300473
Nat Priority List:
APN:
Census Tract:
Site Type: CLOSED
Address Description: --
Office:
Special Program:
Funding:
Cleanup Status:
Cleanup Oversight Agencies:
School District:
Past Use that Caused Contam:
Potential Media Affected:
Potential Contamin of Concern:
Assembly District: 48
Senate District: 22
Permit Renewal Lead:
Public Partici Spclst:
Project Manager:
County: LOS ANGELES
Latitude: 34.083677
Longitude: -117.917728
Acres:
Supervisor:

Site History:

Update 6/29/07 - An RFA is a backlog project for this facility. The property owner was listed as Bank of America. Facility files are in the Glendale DTSC office. The new project manager will need to have files sent to the Sacramento office and conduct Preliminary Review. EPA RCRA Info website says the property is located at 1200 East San Bernardino Road, West Covina, CA 91790, however, Los Angeles County Assessor wasn't able to match this address. The closest match was AIN 8434-016-035 at 1220 W San Bernardino, Covina, CA, 91722. RCRA Info states the NAICS Code is 335999 with

the description: All other miscellaneous electrical equipment and component manufacturing. Early web searches show that in the 1980s, Honeywell Marine Systems Division in West Covina designed/built submarine sonars and missiles. In 1989, Hughes Aircraft bought Honeywell. Raytheon later aquired/bought Hughes.

Update 1/25/08 - The facility was located at 1200 East San Bernardino Drive, West Covina, California 91790 in Los Angeles County. The Facility was owned and operated by Honeywell, Inc - Training and Control Systems Division (from 1963 to 1988), Hughes Rediffusion Simulation, Inc (estimated early 1989), Hughes Simulation Systems, Inc (from 1989 to 1991), and Hughes Training, Inc (HTI) (from 1991 to 1994).

These companies engaged in the manufacture and assembly of flight simulators and electronic components, which generated wastes which were not treated but stored and sent off-site to permitted facilities for recycling, treatment, or disposal.

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines. The types and quantities of hazardous wastes that were stored at the HWSA included the following: solvents, machine oils and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, adhesives, and empty containers.

HTI submitted a closure report for the HWSA on November 22-23, 1994 to DTSC. On November 23, 1994, DTSC determined the closure report met the requirements of the November 18, 1994 amended HWSA closure plan, and consequently decided the HWSA (and thus, the facility) was clean closed. Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility.

Currently, the site is not managing hazardous waste and has been converted to a place of worship, listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street (the latter address being associated with Los Angeles County Office of the Assessor, Assessor's Identification Number: 8434-015-018). The owner of parcel 18 was Bank of America prior to 1984, St Francis Hospital in 1984, Honeywell Inc in 1986, Rediffusion Simulation Inc in 1989, and Faith Community Church of West Covina starting in 1994.

Status: CLOSED
Program Type: HAZ WASTE
CalEnviroScreen Score: 46-50%
Summary Link: http://www.envirostor.dtsc.ca.gov/public/hwmp_profile_report?global_id=CAD008351827

Permit Units - Completed Activities

Unit: NO PERMIT ACTIVITIES HAVE BEEN COMPLETED FOR THIS SITE
Event Description:
Date:
Doc Link:

Units Undergoing Closure

Unit: MULTIPLE UNITS
Event Description: CLOSURE FINAL - RECEIVE CLOSURE CERTIFICATION
Date: 11/23/1994
Doc Link:

Unit: MULTIPLE UNITS
Event Description: CLOSURE FINAL - ISSUE CLOSURE VERIFICATION
Date: 11/23/1994
Doc Link:

80	2 of 3	SE	0.21 / 1,097.06	451.42 / -2	HONEYWELL INC -- WEST COVINA CA 917900000	ENVIROSTOR

Estor/EPA ID: 80001565
Site Code: 300473
Nat Priority List: NO
APN: NONE SPECIFIED
Census Tract: 6037405600
Site Type: CORRECTIVE ACTION
Address Description: --
Office: CLEANUP SACRAMENTO
Special Program:
Funding:
Assembly District: 48
Senate District: 22
Permit Renewal Lead:
Public Partici Spclst:
Project Manager:
County: LOS ANGELES
Latitude: 34.083677
Longitude: -117.917728
Acres: 0 ACRES
Supervisor: * PAULINE BATARSEH
Cleanup Status: NO FURTHER ACTION AS OF 9/3/2009
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM

School District:
Past Use that Caused Contam: NONE SPECIFIED
Potential Media Affected: NONE SPECIFIED
Potential Contamin of Concern:

NONE SPECIFIED

Site History:

Update 6/29/07 - An RFA is a backlog project for this facility. The property owner was listed as Bank of America. Facility files are in the Glendale DTSC office. The new project manager will need to have files sent to the Sacramento office and conduct Preliminary Review. EPA RCRA Info website says the property is located at 1200 East San Bernardino Road, West Covina, CA 91790, however, Los Angeles County Assessor wasn't able to match this address. The closest match was AIN 8434-016-035 at 1220 W San Bernardino, Covina, CA, 91722. RCRA Info states the NAICS Code is 335999 with the description: All other miscellaneous electrical equipment and component manufacturing. Early web searches show that in the 1980s, Honeywell Marine Systems Division in West Covina designed/built submarine sonars and missiles. In 1989, Hughes Aircraft bought Honeywell. Raytheon later aquired/bought Hughes.

Update 1/25/08 - The facility was located at 1200 East San Bernardino Drive, West Covina, California 91790 in Los Angeles County. The Facility was owned and operated by Honeywell, Inc - Training and Control Systems Division (from 1963 to 1988), Hughes Rediffusion Simulation, Inc (estimated early 1989), Hughes Simulation Systems, Inc (from 1989 to 1991), and Hughes Training, Inc (HTI) (from 1991 to 1994).

These companies engaged in the manufacture and assembly of flight simulators and electronic components, which generated wastes which were not treated but stored and sent off-site to permitted facilities for recycling, treatment, or disposal.

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines. The types and quantities of hazardous wastes that were stored at the HWSA included the following: solvents, machine oils and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, adhesives, and empty containers.

HTI submitted a closure report for the HWSA on November 22-23, 1994 to DTSC. On November 23, 1994, DTSC determined the closure report met the requirements of the November 18, 1994 amended HWSA closure plan, and consequently decided the HWSA (and thus, the facility) was clean closed. Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility.

Currently, the site is not managing hazardous waste and has been converted to a place of worship, listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street (the latter address being associated with Los Angeles County Office of the Assessor, Assessor's Identification Number: 8434-015-018). The owner of parcel 18 was Bank of America prior to 1984, St Francis Hospital in 1984, Honeywell Inc in 1986, Rediffusion Simulation Inc in 1989, and Faith Community Church of West Covina starting in 1994.

Status: NO FURTHER ACTION
Program Type: CORRECTIVE ACTION
CalEnviroScreen Score: 46-50%
Summary Link: http://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=80001565

Completed Activities

Title: Voluntary C A
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Consent Order
Date Completed: 7/18/1991
Comments:

Title: CA PROCESS IS TERMINATED-NO FURTHER ACTION (CA999NF)
Title Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=80001565&enforcement_id=6015879
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: * CA Process is Terminated
Date Completed: 6/26/2008
Comments: RFA showed no further action necessary.
cs 7/10/08

1211 East Badillo St. - new

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

1200 East San Bernardino Road - Old

Title: DETERMINATION OF NEED FOR A RFI-RFI IS NOT NECESSARY (CA070NO)
Title Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=80001565&enforcement_id=6016399
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: RCRA Facility Assessment Report
Date Completed: 6/26/2008
Comments: No futher aciton.
cs 7/10/08

Title: RFA COMPLETED (CA050)
Title Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=80001565&enforcement_id=6015878
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: RCRA Facility Assessment Report
Date Completed: 6/26/2008
Comments: RFA no further action neccessary.
cs 7/10/08

80	3 of 3	SE	0.21 / 1,097.06	451.42 / -2	**HONEYWELL INC** -- **WEST COVINA CA 917900000**	HWP

Estor/EPA ID: CAD008351827
Site Code: 300473
Nat Priority List:
Acres:
Special Program:
Funding:
Assembly District: 48
Senate District: 22
School District:
APN:
Cleanup Status:
Cleanup Oversight Agencies:
Site Type: CLOSED
Office:
Past Use that Caused Contam:
Potential Media Affected:
Potential Contamin of Concern:

Permit Renewal Lead:
Project Manager:
Supervisor:
Public Partici Spclst:
Census Tract:
County: LOS ANGELES
Latitude: 34.083677
Longitude: -117.917728

Site History:

Update 6/29/07 - An RFA is a backlog project for this facility. The property owner was listed as Bank of America. Facility files are in the Glendale DTSC office. The new project manager will need to have files sent to the Sacramento office and conduct Preliminary Review. EPA RCRA Info website says the property is located at 1200 East San Bernardino Road, West Covina, CA 91790, however, Los Angeles County Assessor wasn't able to match this address. The closest match was AIN 8434-016-035 at 1220 W San Bernardino, Covina, CA, 91722. RCRA Info states the NAICS Code is 335999 with the description: All other miscellaneous electrical equipment and component manufacturing. Early web searches show that in the 1980s, Honeywell Marine Systems Division in West Covina designed/built submarine sonars and missiles. In 1989, Hughes Aircraft bought Honeywell. Raytheon later aquired/bought Hughes.

Update 1/25/08 - The facility was located at 1200 East San Bernardino Drive, West Covina, California 91790 in Los Angeles County. The Facility was owned and operated by Honeywell, Inc - Training and Control Systems Division (from 1963 to 1988), Hughes Rediffusion Simulation, Inc (estimated early 1989), Hughes Simulation Systems, Inc (from 1989 to 1991), and Hughes Training, Inc (HTI) (from 1991 to 1994).

These companies engaged in the manufacture and assembly of flight simulators and electronic components, which generated wastes which were not treated but stored and sent off-site to permitted facilities for recycling, treatment, or disposal.

From 1981 to 1993 there was one hazardous waste management unit, the Hazardous Waste Storage Area (HWSA), located at the HTI facility. The HWSA was not operated by Honeywell. All wastes generated at the HWSA were analyzed and characterized according to hazard class and type, and disposed of according to local, state, and federal regulatory guidelines. The types and quantities of hazardous wastes that were stored at the HWSA included the following: solvents, machine oils and hydraulic oils, waste paints, polychlorinated biphenyl-containing light ballasts, spent batteries, acids, adhesives, and empty containers.

HTI submitted a closure report for the HWSA on November 22-23, 1994 to DTSC. On November 23, 1994, DTSC determined the closure report met the requirements of the November 18, 1994 amended HWSA closure plan, and consequently decided the HWSA (and thus, the facility) was clean closed. Closure of the HWSA was also considered as closure of the property because DTSC's concerns encompassed the entire facility.

Currently, the site is not managing hazardous waste and has been converted to a place of worship, listed as Faith Community Church at both 1200 East San Bernardino Road and 1211 East Badillo Street (the latter address being associated with Los Angeles County Office of the Assessor, Assessor's Identification Number: 8434-015-018). The owner of parcel 18 was Bank of America prior to 1984, St Francis Hospital in 1984, Honeywell Inc in 1986, Rediffusion Simulation Inc in 1989, and Faith Community Church of West Covina starting in 1994.

Status: CLOSED
Program Type: HAZ WASTE
CalEnviroScreen Score: 46-50%
Summary Link: http://www.envirostor.dtsc.ca.gov/public/hwmp_profile_report?global_id=CAD008351827

Permit Units - Completed Activities

Unit: NO PERMIT ACTIVITIES HAVE BEEN COMPLETED FOR THIS SITE
Event Description:
Date:
Doc Link:

Units Undergoing Closure

Unit: MULTIPLE UNITS
Event Description: CLOSURE FINAL - RECEIVE CLOSURE CERTIFICATION
Date: 11/23/1994
Doc Link:

Unit: MULTIPLE UNITS
Event Description: CLOSURE FINAL - ISSUE CLOSURE VERIFICATION
Date: 11/23/1994
Doc Link:

81	1 of 10	NW	0.23 / 1,206.06	449.36 / -4	HAEMONETICS MFG INC. 1630 INDUSTRIAL PARK ST. COVINA CA 91722-3419	FINDS/FRS

Registry ID: 110000477476
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-2000 00:00:00
Update Date: 31-DEC-2015 10:37:28
Interest Types: ICIS-NPDES UNPERMITTED, OSHA ESTABLISHMENT, SQG, STATE MASTER, TRANSPORTER, TRI REPORTER
SIC Codes: 3089, 3841
SIC Code Descriptions: PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED, SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS
NAICS Codes: 339112, 339113
NAICS Code Descriptions: SURGICAL AND MEDICAL INSTRUMENT MANUFACTURING., SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING.
Conveyor: FRS-TRIS
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.0913
Longitude: -117.92388

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110000477476
Program Acronyms:

81	2 of 10	NW	0.23 / 1,206.06	449.36 / -4	CUTTER LABORATORIES 1630 INDUSTRIAL PARK STREET COVINA CA 91722	HHSS

County: Los Angeles
Pdf File Url: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000274d0.pdf

---

81	3 of 10	NW	0.23 / 1,206.06	449.36 / -4	CUTTER BIOLOGICAL DIVISION OF 1630 INDUSTRIAL PARK ST. COVINA CA 91722	EMISSIONS

1990 Criteria Data

Facility ID:	78942	**CERR Code:**	
Facility SIC Code:	3069	**TOGT:**	.5
CO:	19	**ROGT:**	.43925
Air Basin:	SC	**COT:**	1.4
District:	SC	**NOXT:**	1.9
COID:	LA	**SOXT:**	.1
DISN:	SOUTH COAST AQMD	**PMT:**	.5
CHAPIS:		**PM10T:**	.488

1990 Toxic Data

Facility ID:	78942	**COID:**	LA
Facility SIC Code:	3069	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

81	4 of 10	NW	0.23 / 1,206.06	449.36 / -4	CUTTER LABS 1630 INDUSTRIAL PARK ST. COVINA CA 91722	EMISSIONS

1987 Criteria Data

Facility ID:	11958	**CERR Code:**	
Facility SIC Code:	3069	**TOGT:**	.1
CO:	19	**ROGT:**	.04223
Air Basin:	SC	**COT:**	0
District:	SC	**NOXT:**	1.7
COID:	LA	**SOXT:**	0
DISN:	SOUTH COAST AQMD	**PMT:**	.2
CHAPIS:		**PM10T:**	.2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

1987 Toxic Data

Facility ID:	11958	***COID:***	LA
Facility SIC Code:	3069	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	5 of 10	NW	0.23 / 1,206.06	449.36 / -4	MEDSEP CORPORATION 1630-65 INDUSTRIAL PARK ST COVINA CA 91722	EMISSIONS

1996 Criteria Data

Facility ID:	109524	***CERR Code:***	
Facility SIC Code:	3069	***TOGT:***	0
CO:	19	***ROGT:***	0
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	LA	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

1996 Toxic Data

Facility ID:	109524	***COID:***	LA
Facility SIC Code:	3069	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1998 Toxic Data

Facility ID:	109524	***COID:***	LA
Facility SIC Code:	3069	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1999 Toxic Data

Facility ID:	109524	***COID:***	LA
Facility SIC Code:	3069	***DISN:***	SOUTH COAST AQMD
CO:	19	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			

Non-Cancer Acute Haz Ind:

2000 Toxic Data

Facility ID: 109524
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Toxic Data

Facility ID: 109524
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	6 of 10	NW	0.23 / 1,206.06	449.36 / -4	MILES INC, CUTTER BIOLOGICAL D 1630-166 INDUSTRIAL PARK ST COVINA CA 91722	EMISSIONS

1996 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1997 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1998 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

1999 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2000 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Toxic Data

Facility ID: 78942
Facility SIC Code: 3069
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	7 of 10	NW	0.23 / 1,206.06	449.36 / -4	CUTTER LABORATORIES 1630 INDUSTRIAL PARK STREET COVINA CA	HIST TANK

Owner Name: CUTTER LABORATORIES
Owner Street: 1630 INDUSTRIAL PARK STREET
Owner City: COVINA
Owner State: CA
Owner Zip: 91722

No of Containers: 1
County: LOS ANGELES
Facility State: CA
Facility Zip: 91722

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	8 of 10	NW	0.23 / 1,206.06	449.36 / -4	HAEMONETICS MANUFACTURING INC 1630 INDUSTRIAL PARK ST COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0014454
CERS ID: 10284646

Active Facility Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
PE:		3003				
PE:		1003				
81	9 of 10	NW	0.23 / 1,206.06	449.36 / -4	HAEMONETICS MANUFACTURING INC 1630 INDUSTRIAL PARK ST COVINA CA 91722-0000	RCRA TSD

EPA Handler ID: CAD118576735
Gen Status Universe: No Report
Contact Name: THUAN CHAU
Contact Address: 1630 WEST INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext: 626-859-8135
Contact Email: THUAN.CHAU@HAEMONETICS.COM
Contact Country:
Land Type:
County Name: LOS ANGELES
EPA Region: 09
Receive Date: 19880617

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: Yes
Transfer Facility: No
Onsite Burner Exemption: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19880617
Handler Name: HAEMONETICS MANUFACTURING INC
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19940330
Handler Name: MILES INC
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19951004
Handler Name: MEDSEP CORP
Generator Status Universe: No Report
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19980430
Handler Name: MEDSEP CORP
Generator Status Universe: No Report
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D004
Waste Code Description: ARSENIC

Hazardous Waste Code: D005
Waste Code Description: BARIUM

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: F001
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F008
Waste Code Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Hazardous Waste Code: U117
Waste Code Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Hazardous Waste Code: U135
Waste Code Description: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20121004
Handler Name: HAEMONETICS MFG INC
Generator Status Universe: No Report
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 181
Waste Code Description: Other inorganic solid waste

Hazardous Waste Code: 214
Waste Code Description: Unspecified solvent mixture

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: 512
Waste Code Description: Other empty containers 30 gallons or more

Hazardous Waste Code: 513
Waste Code Description: Empty containers less than 30 gallons

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D003
Waste Code Description: REACTIVE WASTE

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: U057
Waste Code Description: CYCLOHEXANONE (I)

Hazardous Waste Code: U159
Waste Code Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone:	415-555-1212	**Country:**	
Source Type:	Notification	**Zip Code:**	99999
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	400 WOOD RD
Name:	HAEMONETICS CORP	**Street 2:**	
Date Became Current:	20120801	**City:**	BRAINTREE
Date Ended Current:		**State:**	MA
Phone:	781-848-7100	**Country:**	US
Source Type:	Notification	**Zip Code:**	02184
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	2200 NORTHERN BLVD
Name:	PALL CORP	**Street 2:**	
Date Became Current:		**City:**	EAST HILLS
Date Ended Current:		**State:**	NY
Phone:	516-484-5400	**Country:**	
Source Type:	Notification	**Zip Code:**	11548
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	HAEMONETICS MFG INC	**Street 2:**	
Date Became Current:	20120801	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	400 WOOD RD
Name:	HAEMONETICS MANUFACTURING INC	**Street 2:**	
Date Became Current:		**City:**	BRAINTREE
Date Ended Current:		**State:**	MA
Phone:	781-848-7100	**Country:**	
Source Type:	Implementer	**Zip Code:**	02184-0000
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1630 WEST INDUSTRIAL PARK ST
Name:	THUAN CHAU	**Street 2:**	
Date Became Current:		**City:**	COVINA
Date Ended Current:		**State:**	CA
Phone:	626-859-8135	**Country:**	
Source Type:	Implementer	**Zip Code:**	91722

Historical Handler Details

Receive Dt:	20121004
Generator Code Description:	Small Quantity Generator
Handler Name:	HAEMONETICS MFG INC
Receive Dt:	19980430
Generator Code Description:	Small Quantity Generator
Handler Name:	MEDSEP CORP
Receive Dt:	19951004
Generator Code Description:	Small Quantity Generator
Handler Name:	MEDSEP CORP
Receive Dt:	19940330
Generator Code Description:	Large Quantity Generator
Handler Name:	MILES INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	10 of 10	NW	0.23 / 1,206.06	449.36 / -4	HAEMONETICS MANUFACTURING INC 1630 INDUSTRIAL PARK ST COVINA CA 91722-0000	RCRA NON GEN

EPA Handler ID:	CAD118576735

Gen Status Universe:	No Report
Contact Name:	THUAN CHAU
Contact Address:	1630 WEST INDUSTRIAL PARK ST , , COVINA , CA, 91722 ,
Contact Phone No and Ext:	626-859-8135
Contact Email:	THUAN.CHAU@HAEMONETICS.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	19880617

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19880617
Handler Name:	HAEMONETICS MANUFACTURING INC
Generator Status Universe:	No Report
Source Type:	Implementer

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19940330
Handler Name:	MILES INC
Generator Status Universe:	No Report
Source Type:	Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19951004
Handler Name:	MEDSEP CORP
Generator Status Universe:	No Report
Source Type:	Notification

Hazardous Waste Handler Details

Sequence No:	2
Receive Date:	19980430

Handler Name: MEDSEP CORP
Generator Status Universe: No Report
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D004
Waste Code Description: ARSENIC

Hazardous Waste Code: D005
Waste Code Description: BARIUM

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: F001
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F008
Waste Code Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Hazardous Waste Code: U117
Waste Code Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Hazardous Waste Code: U135
Waste Code Description: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20121004
Handler Name: HAEMONETICS MFG INC
Generator Status Universe: No Report
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 181
Waste Code Description: Other inorganic solid waste

Hazardous Waste Code: 214
Waste Code Description: Unspecified solvent mixture

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: 512
Waste Code Description: Other empty containers 30 gallons or more

Hazardous Waste Code: 513
Waste Code Description: Empty containers less than 30 gallons

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D003
Waste Code Description: REACTIVE WASTE

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: U057
Waste Code Description: CYCLOHEXANONE (I)

Hazardous Waste Code: U159
Waste Code Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: THUAN CHAU
Date Became Current:
Date Ended Current:
Phone: 626-859-8135
Source Type: Implementer
Street No:
Street 1: 1630 WEST INDUSTRIAL PARK ST
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Owner
Type: Other
Name: HAEMONETICS MANUFACTURING INC
Date Became Current:
Date Ended Current:
Phone: 781-848-7100
Source Type: Implementer
Street No:
Street 1: 400 WOOD RD
Street 2:
City: BRAINTREE
State: MA
Country:
Zip Code: 02184-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	400 WOOD RD
Name:	HAEMONETICS CORP	**Street 2:**	
Date Became Current:	20120801	**City:**	BRAINTREE
Date Ended Current:		**State:**	MA
Phone:	781-848-7100	**Country:**	US
Source Type:	Notification	**Zip Code:**	02184
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	HAEMONETICS MFG INC	**Street 2:**	
Date Became Current:	20120801	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	2200 NORTHERN BLVD
Name:	PALL CORP	**Street 2:**	
Date Became Current:		**City:**	EAST HILLS
Date Ended Current:		**State:**	NY
Phone:	516-484-5400	**Country:**	
Source Type:	Notification	**Zip Code:**	11548
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	NOT REQUIRED
Name:	NOT REQUIRED	**Street 2:**	
Date Became Current:		**City:**	NOT REQUIRED
Date Ended Current:		**State:**	ME
Phone:	415-555-1212	**Country:**	
Source Type:	Notification	**Zip Code:**	99999

Historical Handler Details

Receive Dt:	20121004
Generator Code Description:	Small Quantity Generator
Handler Name:	HAEMONETICS MFG INC
Receive Dt:	19980430
Generator Code Description:	Small Quantity Generator
Handler Name:	MEDSEP CORP
Receive Dt:	19951004
Generator Code Description:	Small Quantity Generator
Handler Name:	MEDSEP CORP
Receive Dt:	19940330
Generator Code Description:	Large Quantity Generator
Handler Name:	MILES INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
82	1 of 3	NW	0.23 / 1,213.56	449.43 / -4	HFC ENTERPRISES, LTD, L.P. 1629 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID:	110070313659
FIPS Code:	
HUC Code:	
Site Type Name:	
Location Description:	
Supplemental Location:	
Create Date:	27-SEP-2018 12:19:23
Update Date:	
Interest Types:	OSHA ESTABLISHMENT
SIC Codes:	3444
SIC Code Descriptions:	SHEET METALWORK
NAICS Codes:	333415
NAICS Code Descriptions:	AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

REFRIGERATION EQUIPMENT MANUFACTURING.

Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070313659
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
82	2 of 3	NW	0.23 / 1,213.56	449.43 / -4	MEZ INDUSTRIES, INC. 1629 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110070313660
FIPS Code:
HUC Code:
Site Type Name:
Location Description:
Supplemental Location:
Create Date: 27-SEP-2018 12:19:24
Update Date:
Interest Types: OSHA ESTABLISHMENT
SIC Codes: 3444
SIC Code Descriptions: SHEET METALWORK
NAICS Codes: 333415
NAICS Code Descriptions: AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING.
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070313660
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
82	3 of 3	NW	0.23 / 1,213.56	449.43 / -4	ORECO DUCT SYSTEMS, INC. 1629 INDUSTRIAL PARK ST COVINA CA 91722	FINDS/FRS

Registry ID: 110070314792

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

FIPS Code:
HUC Code:
Site Type Name:
Location Description:
Supplemental Location:
Create Date: 27-SEP-2018 12:32:55
Update Date:
Interest Types: OSHA ESTABLISHMENT
SIC Codes: 3444
SIC Code Descriptions: SHEET METALWORK
NAICS Codes: 333415
NAICS Code Descriptions: AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING.
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name:
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070314792
Program Acronyms:

83	*1 of 1*	*NW*	*0.23 / 1,218.01*	*449.36 / -4*	***CUTTER BIOLOGICAL*** ***1640 W INDUSTRIAL PARK ST*** ***COVINA CA 91722***	***LA COUNTY CUPA***

Facility ID: FA0014453
CERS ID: 0

Inactive Facility Details

PE: 3001

84	*1 of 2*	*WNW*	*0.23 / 1,191.67*	*443.47 / -10*	***SES AUTO SERVICE*** ***526 N VINCENT AVE*** ***COVINA CA 91722***	***CERS HAZ***

Site ID: 66730
Latitude: 34.090176
Longitude: -117.925034
County: Los Angeles County

Regulated Programs

EI ID: 10298227 ***EI Description:*** Chemical Storage Facilities

EI ID: 10298227 ***EI Description:*** Hazardous Waste Generator

Violations

Violation Date: 08/07/2018 ***Violation Source:*** CERS

Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 10/25/2018. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 08/07/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Los Angeles County Fire Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 10/25/2018. OBSERVATION: The business failed to electronically submit an emergency response plan in CERS. CORRECTIVE ACTION: Establish and electronically submit an emergency response plan in CERS.

Violation Description:

Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Evaluations

Eval Date: 12/18/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

HUU HUYNH OWNER; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/07/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

HUU HUYNH; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/18/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

HUU HUYNH OWNER; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/07/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

HUU HUYNH NO SIGNIFICANT VIOLATIONS OBSERVED; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/25/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: HUYNH HUU
Entity Title:
Address: 526 N VINCENT
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Operator
Entity Name: HUYNH HUU
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (626) 967-8800

Affil Type Desc: Parent Corporation
Entity Name: ses auto service
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 526 N VINCENT AVE
City: COVINA
State: CA
Country:
Zip Code: 91722
Phone:

Affil Type Desc: Document Preparer
Entity Name: HUU HUYNH
Entity Title:
Address:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: HUU HUYNH
Entity Title: OWNER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: HUU HUYNH
Entity Title: OWNER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title:
Address: 5825 Rickenbacker Road
City: Commerce
State: CA
Country:
Zip Code: 90040-3027
Phone: (323) 890-4045

Affil Type Desc: Legal Owner
Entity Name: HUU HUYNH
Entity Title:
Address: 526 N VINCENT AVE
City: COVINA
State: CA
Country: United States
Zip Code: 91722
Phone: (626) 322-7840

Coordinates

Env Int Type Code: HWG
Program ID: 10298227
Latitude: 34.090180
Longitude: -117.925030
Coord Name:
Ref Point Type Desc: Center of a facility or station.

84	2 of 2	WNW	0.23 / 1,191.67	443.47 / -10	SES AUTO SERVICE 526 N VINCENT AVE COVINA CA 91722	LA COUNTY CUPA

Facility ID: FA0039219
CERS ID: 10298227

Active Facility Details

PE: 1001

PE: 3001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	1 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID: 91722CTTRB1630I
FRS ID:
Year: 1997
Federal Facility: NO
Tribe:

BIA Code:
County: LOS ANGELES
Latitude: 34.091366
Longitude: -117.92416

--Details--
SRS ID:
Primary SIC: 3841
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS: 339112
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1397110392469
Chemical: DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID: 000117817
Clean Air Act?: YES
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: YES
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 0
5.2 Stack Air: 10
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0
5.5.3 Surface Impoundment: 0
5.5.3A RCRA C Surface Imp: 0
5.5.3B Other Surface Imp: 0
5.5.4 Other Disposal: 0
On-Site Release Total: 10
6.1 POTW - Transfers for Rel: 0
6.1 POTW - Transfers for Treat: 0
6.1 POTW - Total Transfers: 0
6.2 M10: 0
6.2 M41: 0
6.2 M62: 0
6.2 M71: 0
6.2 M81: 0
6.2 M82: 0
6.2 M72: 0
6.2 M63: 0
6.2 M66: 0
6.2 M67: 0
6.2 M64: 0
6.2 M65: 0
6.2 M73: 0
6.2 M79: 0
6.2 M90: 0
6.2 M94: 0
6.2 M99: 0
Off-Site Release Total: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	10
8.1 Releases:	10
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	10
8.8 One-Time Release:	0
8.9 Production Ratio:	1.15
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	2 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1994	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1394080021797
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817

Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	22250
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	22250
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	197205
Off-Site Recycled Total:	197205
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	22260
8.1 Releases:	22250
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	197205
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Production Waste: 219455
8.8 One-Time Release: 0
8.9 Production Ratio: 1.02
Parent Company Name: PALL CORP
Parent Company DB No: 002054419
Industry Sector Code:
Industry Sector:
5.4 Underground:
5.5.1 Landfills:
Prod Ratio or Activity:

---

85 | **3 of 13** | **NW** | **0.24 / 1,249.27** | **449.36 / -4** | **MEDSEP CORP.**
1630 INDUSTRIAL PARK ST.
COVINA CA 91722 | **TRIS**

TRI Facility ID: 91722CTTRB1630I
FRS ID:
Year: 1989
Federal Facility: NO
Tribe:

BIA Code:
County: LOS ANGELES
Latitude: 34.091366
Longitude: -117.92416

--Details--
SRS ID:
Primary SIC: 3089
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS: 339112
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1389035124775
Chemical: DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID: 000117817
Clean Air Act?: YES
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: YES
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 250
5.2 Stack Air: 250
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0
5.5.3 Surface Impoundment: 0
5.5.3A RCRA C Surface Imp: 0
5.5.3B Other Surface Imp: 0
5.5.4 Other Disposal: 0
On-Site Release Total: 500
6.1 POTW - Transfers for Rel: 0
6.1 POTW - Transfers for Treat: 0
6.1 POTW - Total Transfers: 0
6.2 M10: 0
6.2 M41: 0
6.2 M62: 0
6.2 M71: 0
6.2 M81: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	500
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	4 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1993	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	

SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1393070050099
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	73312
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	73312
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	152973
Off-Site Recycled Total:	152973
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Off-Site Treated Total:	0
Total Releases:	73322
8.1 Releases:	73312
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	152973
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	226285
8.8 One-Time Release:	0
8.9 Production Ratio:	.97
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	5 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1998	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3841
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1398120582996
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	4
5.2 Stack Air:	6
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5.5.3 Surface Impoundment:	0					
5.5.3A RCRA C Surface Imp:	0					
5.5.3B Other Surface Imp:	0					
5.5.4 Other Disposal:	0					
On-Site Release Total:	10					
6.1 POTW - Transfers for Rel:	0					
6.1 POTW - Transfers for Treat:	0					
6.1 POTW - Total Transfers:	0					
6.2 M10:	0					
6.2 M41:	0					
6.2 M62:	0					
6.2 M71:	0					
6.2 M81:	0					
6.2 M82:	0					
6.2 M72:	0					
6.2 M63:	0					
6.2 M66:	0					
6.2 M67:	0					
6.2 M64:	0					
6.2 M65:	0					
6.2 M73:	0					
6.2 M79:	0					
6.2 M90:	0					
6.2 M94:	0					
6.2 M99:	0					
Off-Site Release Total:	0					
6.2 M20:	0					
6.2 M24:	0					
6.2 M26:	0					
6.2 M28:	0					
6.2 M93:	0					
Off-Site Recycled Total:	0					
6.2 M56:	0					
6.2 M92:	0					
Off-Site Recovery Total:	0					
6.2 M40:	0					
6.2 M50:	2626					
6.2 M54:	0					
6.2 M61:	0					
6.2 M69:	0					
6.2 M95:	0					
Off-Site Treated Total:	2626					
Total Releases:	10					
8.1 Releases:	2636					
8.1A On-Site Contained Rel:	0					
8.1B On-Site Other Rel:	0					
8.1C Off-Site Contained Rel:	0					
8.1D Off-Site Other Releases:	0					
8.2 On-Site Energy Recovery:	0					
8.3 Energy Recovery Off-Site:	0					
8.4 On-Site Recycling:	0					
8.5 Recycling Off-Site:	0					
8.6 On-Site Treatment:	0					
8.7 Treatement Off-Site:	2626					
Production Waste:	5262					
8.8 One-Time Release:	0					
8.9 Production Ratio:	1.03					
Parent Company Name:	PALL CORP					
Parent Company DB No:	002054419					
Industry Sector Code:						
Industry Sector:						
5.4 Underground:						
5.5.1 Landfills:						
Prod Ratio or Activity:						

85	6 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST.	TRIS

COVINA CA 91722

TRI Facility ID:	91722CTTRB1630I	***BIA Code:***	
FRS ID:		***County:***	LOS ANGELES
Year:	1995	***Latitude:***	34.091366
Federal Facility:	NO	***Longitude:***	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1395090068432
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	12736
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	12736
6.2 M20:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	194551
Off-Site Recycled Total:	194551
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	12746
8.1 Releases:	12735
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	194551
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	207286
8.8 One-Time Release:	0
8.9 Production Ratio:	1.14
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

85	***7 of 13***	***NW***	***0.24 / 1,249.27***	***449.36 / -4***	***MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722***	***TRIS***

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1990	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1390045597059
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES

Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	10
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

8.8 One-Time Release: 0
8.9 Production Ratio:
Parent Company Name: PALL CORP
Parent Company DB No: 002054419
Industry Sector Code:
Industry Sector:
5.4 Underground:
5.5.1 Landfills:
Prod Ratio or Activity:

---

85 | ***8 of 13*** | ***NW*** | ***0.24 / 1,249.27*** | ***449.36 / -4*** | ***MEDSEP CORP.***
1630 INDUSTRIAL PARK ST.
COVINA CA 91722 | ***TRIS***

TRI Facility ID: 91722CTTRB1630I
FRS ID:
Year: 1987
Federal Facility: NO
Tribe:

BIA Code:
County: LOS ANGELES
Latitude: 34.091366
Longitude: -117.92416

--Details--
SRS ID:
Primary SIC: 3089
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS:
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1387010692871
Chemical: DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID: 000117817
Clean Air Act?: YES
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: YES
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 614
5.2 Stack Air: 2993
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0
5.5.3 Surface Impoundment: 0
5.5.3A RCRA C Surface Imp: 0
5.5.3B Other Surface Imp: 0
5.5.4 Other Disposal: 0
On-Site Release Total: 3607
6.1 POTW - Transfers for Rel: 0
6.1 POTW - Transfers for Treat: 0
6.1 POTW - Total Transfers: 0
6.2 M10: 0
6.2 M41: 0
6.2 M62: 0
6.2 M71: 0
6.2 M81: 0
6.2 M82: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	3607
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	9 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1999	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3841
SIC 2:	
SIC 3:	

SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1399130534985
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	4
5.2 Stack Air:	6
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Total Releases:	10
8.1 Releases:	10
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	10
8.8 One-Time Release:	0
8.9 Production Ratio:	1.09
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	10 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1988	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1388025017272
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	714
5.2 Stack Air:	3486
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5.5.3A RCRA C Surface Imp:	0					
5.5.3B Other Surface Imp:	0					
5.5.4 Other Disposal:	0					
On-Site Release Total:	4200					
6.1 POTW - Transfers for Rel:	0					
6.1 POTW - Transfers for Treat:	0					
6.1 POTW - Total Transfers:	0					
6.2 M10:	0					
6.2 M41:	0					
6.2 M62:	0					
6.2 M71:	0					
6.2 M81:	0					
6.2 M82:	0					
6.2 M72:	0					
6.2 M63:	0					
6.2 M66:	0					
6.2 M67:	0					
6.2 M64:	0					
6.2 M65:	0					
6.2 M73:	0					
6.2 M79:	0					
6.2 M90:	0					
6.2 M94:	0					
6.2 M99:	0					
Off-Site Release Total:	0					
6.2 M20:	0					
6.2 M24:	0					
6.2 M26:	0					
6.2 M28:	0					
6.2 M93:	0					
Off-Site Recycled Total:	0					
6.2 M56:	0					
6.2 M92:	0					
Off-Site Recovery Total:	0					
6.2 M40:	0					
6.2 M50:	0					
6.2 M54:	0					
6.2 M61:	0					
6.2 M69:	0					
6.2 M95:	0					
Off-Site Treated Total:	0					
Total Releases:	4200					
8.1 Releases:	0					
8.1A On-Site Contained Rel:	0					
8.1B On-Site Other Rel:	0					
8.1C Off-Site Contained Rel:	0					
8.1D Off-Site Other Releases:	0					
8.2 On-Site Energy Recovery:	0					
8.3 Energy Recovery Off-Site:	0					
8.4 On-Site Recycling:	0					
8.5 Recycling Off-Site:	0					
8.6 On-Site Treatment:	0					
8.7 Treatement Off-Site:	0					
Production Waste:	0					
8.8 One-Time Release:	0					
8.9 Production Ratio:						
Parent Company Name:	PALL CORP					
Parent Company DB No:	002054419					
Industry Sector Code:						
Industry Sector:						
5.4 Underground:						
5.5.1 Landfills:						
Prod Ratio or Activity:						

85	***11 of 13***	***NW***	***0.24 / 1,249.27***	***449.36 / -4***	***MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722***	***TRIS***

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1992	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1392065521041
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	16900
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	16900
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	16910
8.1 Releases:	16900
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	16900
8.8 One-Time Release:	0
8.9 Production Ratio:	.81
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
85	12 of 13	NW	0.24 / 1,249.27	449.36 / -4	MEDSEP CORP. 1630 INDUSTRIAL PARK ST. COVINA CA 91722	TRIS

TRI Facility ID:	91722CTTRB1630I	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1991	**Latitude:**	34.091366
Federal Facility:	NO	**Longitude:**	-117.92416
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3089
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	339112
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1391055131433
Chemical:	DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID:	000117817
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO

Metal Category:	0
Carcinogen:	YES
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	5
5.2 Stack Air:	5
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	10
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	38100
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	38100
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	38110
8.1 Releases:	38100
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	38100
8.8 One-Time Release:	0
8.9 Production Ratio:	1.04

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Parent Company Name: PALL CORP
Parent Company DB No: 002054419
Industry Sector Code:
Industry Sector:
5.4 Underground:
5.5.1 Landfills:
Prod Ratio or Activity:

---

85 | **13 of 13** | **NW** | **0.24 / 1,249.27** | **449.36 / -4** | **MEDSEP CORP.**
1630 INDUSTRIAL PARK ST.
COVINA CA 91722 | **TRIS**

TRI Facility ID: 91722CTTRB1630I
FRS ID:
Year: 1996
Federal Facility: NO
Tribe:

BIA Code:
County: LOS ANGELES
Latitude: 34.091366
Longitude: -117.92416

--Details--
SRS ID:
Primary SIC: 3841
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS: 339112
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1396100042807
Chemical: DI(2-ETHYLHEXYL) PHTHALATE
CAS No/Compound ID: 000117817
Clean Air Act?: YES
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: YES
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 0
5.2 Stack Air: 0
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0
5.5.3 Surface Impoundment: 0
5.5.3A RCRA C Surface Imp: 0
5.5.3B Other Surface Imp: 0
5.5.4 Other Disposal: 0
On-Site Release Total: 0
6.1 POTW - Transfers for Rel: 0
6.1 POTW - Transfers for Treat: 0
6.1 POTW - Total Transfers: 0
6.2 M10: 0
6.2 M41: 0
6.2 M62: 0
6.2 M71: 0
6.2 M81: 0
6.2 M82: 0
6.2 M72: 0
6.2 M63: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	191764
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	191764
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	0
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	191764
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	191764
8.8 One-Time Release:	0
8.9 Production Ratio:	.73
Parent Company Name:	PALL CORP
Parent Company DB No:	002054419
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
86	1 of 2	NE	0.21 / 1,093.70	467.38 / 14	COVINA VALLEY USD LAS PALMAS JR HIGH 641 N LARKELLEN COVINA CA 91723	RCRA SQG

EPA Handler ID:	CAD982042814
Gen Status Universe:	Small Quantity Generator
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	641 N LARKELLEN , , COVINA , CA, 91723 , US
Contact Phone No and Ext:	818-331-3371
Contact Email:	
Contact Country:	US
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	Other
Receive Date:	19870928

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Violation/Evaluation Summary

Note: NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19870928
Handler Name:	COVINA VALLEY USD LAS PALMAS JR HIGH
Generator Status Universe:	Small Quantity Generator
Source Type:	Notification

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	District	***Street 1:***	NOT REQUIRED
Name:	COVINA VALLEY USD	***Street 2:***	
Date Became Current:		***City:***	NOT REQUIRED
Date Ended Current:		***State:***	ME
Phone:	415-555-1212	***Country:***	
Source Type:	Notification	***Zip Code:***	99999
Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	District	***Street 1:***	NOT REQUIRED
Name:	NOT REQUIRED	***Street 2:***	
Date Became Current:		***City:***	NOT REQUIRED
Date Ended Current:		***State:***	ME
Phone:	415-555-1212	***Country:***	
Source Type:	Notification	***Zip Code:***	99999

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
86	*2 of 2*	*NE*	*0.21 / 1,093.70*	*467.38 / 14*	***COVINA VALLEY USD LAS PALMAS JR HIGH*** ***641 N LARKELLEN*** ***COVINA CA 91722-3463***	*FINDS/FRS*

Registry ID:	110002786511
FIPS Code:	06037
HUC Code:	18070106
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	01-MAR-2000 00:00:00
Update Date:	04-AUG-2010 23:43:18
Interest Types:	SQG, STATE MASTER
SIC Codes:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 32
Census Block Code: 060374057012000
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 34.09207
Longitude: -117.9166
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: http://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002786511
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
87	1 of 5	E	0.22 / 1,174.65	471.27 / 18	HUGHES TRAINING INC. 1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	TRIS

TRI Facility ID: 91790HNYWL1200E
FRS ID:
Year: 1991
Federal Facility: NO
Tribe:
BIA Code:
County: LOS ANGELES
Latitude: 34.08805
Longitude: -117.91465

--Details--
SRS ID:
Primary SIC: 3699
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS: 335999
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1391055721652
Chemical: FREON 113
CAS No/Compound ID: 000076131
Clean Air Act?: NO
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: NO
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 0
5.2 Stack Air: 300
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0

5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	300
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	300
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	
SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	

SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	335999
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1391055721625
Chemical:	1,1,1-TRICHLOROETHANE
CAS No/Compound ID:	000071556
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	300
5.2 Stack Air:	3000
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	3300
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	1500
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	1500
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0

Total Releases:	3300
8.1 Releases:	3300
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	1500
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	4800
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	
SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	335999
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1391055721637
Chemical:	SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)
CAS No/Compound ID:	007664939
Clean Air Act?:	NO
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	0
5.2 Stack Air:	100
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	100
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0

6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	100
6.2 M95:	0
Off-Site Treated Total:	100
Total Releases:	100
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	16
8.7 Treatement Off-Site:	0
Production Waste:	16
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	
SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	335999
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1391055721649
Chemical:	METHYL ETHYL KETONE
CAS No/Compound ID:	000078933
Clean Air Act?:	NO
Classification:	NON-PBT
Metal:	NO

Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	150
5.2 Stack Air:	0
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	150
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	0
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	0
6.2 M20:	20
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	20
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	150
8.1 Releases:	150
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	100
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	250
8.8 One-Time Release:	0
8.9 Production Ratio:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Parent Company Name: GMC
Parent Company DB No: 005356613
Industry Sector Code:
Industry Sector:
5.4 Underground:
5.5.1 Landfills:
Prod Ratio or Activity:

---

87 | **2 of 5** | **E** | **0.22 / 1,174.65** | **471.27 / 18** | **HUGHES TRAINING INC.**
1200 E. SAN BERNARDINO RD.
WEST COVINA CA 91790 | **TRIS**

TRI Facility ID: 91790HNYWL1200E
FRS ID:
Year: 1990
Federal Facility: NO
Tribe:

BIA Code:
County: LOS ANGELES
Latitude: 34.08805
Longitude: -117.91465

--Details--
SRS ID:
Primary SIC: 3699
SIC 2:
SIC 3:
SIC 4:
SIC 5:
SIC 6:
Primary NAICS: 335999
NAICS 2:
NAICS 3:
NAICS 4:
NAICS 5:
NAICS 6:
Document No: 1390045302700
Chemical: 1,1,1-TRICHLOROETHANE
CAS No/Compound ID: 000071556
Clean Air Act?: YES
Classification: NON-PBT
Metal: NO
Metal Category: 0
Carcinogen: NO
Form Type: R
Unit of Measure: Pounds
5.1 Fugitive Air: 2700
5.2 Stack Air: 5500
5.3 Water: 0
5.4.1 UIC Class I: 0
5.4.2 UIC Class II-V: 0
5.5.1A RCRA C Landfills: 0
5.5.1B Other Landfills: 0
5.5.2 Land Treatment: 0
5.5.3 Surface Impoundment: 0
5.5.3A RCRA C Surface Imp: 0
5.5.3B Other Surface Imp: 0
5.5.4 Other Disposal: 0
On-Site Release Total: 8200
6.1 POTW - Transfers for Rel: 0
6.1 POTW - Transfers for Treat: 0
6.1 POTW - Total Transfers: 0
6.2 M10: 0
6.2 M41: 0
6.2 M62: 0
6.2 M71: 0
6.2 M81: 0
6.2 M82: 0
6.2 M72: 0
6.2 M63: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	4000
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	4000
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	12200
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
87	3 of 5	E	0.22 / 1,174.65	471.27 / 18	HUGHES TRAINING INC. 1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	TRIS

TRI Facility ID:	91790HNYWL1200E	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1987	**Latitude:**	34.08805
Federal Facility:	NO	**Longitude:**	-117.91465
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	

SIC 6:	
Primary NAICS:	
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1387010340735
Chemical:	1,1,1-TRICHLOROETHANE
CAS No/Compound ID:	000071556
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	8920
5.2 Stack Air:	4200
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	13120
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	3110
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	3110
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	16230
8.1 Releases:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
87	4 of 5	E	0.22 / 1,174.65	471.27 / 18	HUGHES TRAINING INC. 1200 E. SAN BERNARDINO RD. WEST COVINA CA 91790	TRIS

TRI Facility ID:	91790HNYWL1200E	**BIA Code:**	
FRS ID:		**County:**	LOS ANGELES
Year:	1988	**Latitude:**	34.08805
Federal Facility:	NO	**Longitude:**	-117.91465
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	335999
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1388025214545
Chemical:	1,1,1-TRICHLOROETHANE
CAS No/Compound ID:	000071556
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	6384
5.2 Stack Air:	3394
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

5.5.4 Other Disposal:	0
On-Site Release Total:	9778
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	3020
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	3020
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0
Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	12798
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

87	**5 of 5**	**E**	**0.22 / 1,174.65**	**471.27 / 18**	**HUGHES TRAINING INC.** **1200 E. SAN BERNARDINO RD.** **WEST COVINA CA 91790**	**TRIS**

TRI Facility ID: 91790HNYWL1200E **BIA Code:**

FRS ID:		**County:**	LOS ANGELES
Year:	1989	**Latitude:**	34.08805
Federal Facility:	NO	**Longitude:**	-117.91465
Tribe:			

--Details--

SRS ID:	
Primary SIC:	3699
SIC 2:	
SIC 3:	
SIC 4:	
SIC 5:	
SIC 6:	
Primary NAICS:	335999
NAICS 2:	
NAICS 3:	
NAICS 4:	
NAICS 5:	
NAICS 6:	
Document No:	1389035457009
Chemical:	1,1,1-TRICHLOROETHANE
CAS No/Compound ID:	000071556
Clean Air Act?:	YES
Classification:	NON-PBT
Metal:	NO
Metal Category:	0
Carcinogen:	NO
Form Type:	R
Unit of Measure:	Pounds
5.1 Fugitive Air:	6195
5.2 Stack Air:	3322
5.3 Water:	0
5.4.1 UIC Class I:	0
5.4.2 UIC Class II-V:	0
5.5.1A RCRA C Landfills:	0
5.5.1B Other Landfills:	0
5.5.2 Land Treatment:	0
5.5.3 Surface Impoundment:	0
5.5.3A RCRA C Surface Imp:	0
5.5.3B Other Surface Imp:	0
5.5.4 Other Disposal:	0
On-Site Release Total:	9517
6.1 POTW - Transfers for Rel:	0
6.1 POTW - Transfers for Treat:	0
6.1 POTW - Total Transfers:	0
6.2 M10:	0
6.2 M41:	0
6.2 M62:	0
6.2 M71:	0
6.2 M81:	0
6.2 M82:	0
6.2 M72:	0
6.2 M63:	0
6.2 M66:	0
6.2 M67:	0
6.2 M64:	0
6.2 M65:	0
6.2 M73:	0
6.2 M79:	0
6.2 M90:	2929
6.2 M94:	0
6.2 M99:	0
Off-Site Release Total:	2929
6.2 M20:	0
6.2 M24:	0
6.2 M26:	0
6.2 M28:	0
6.2 M93:	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Off-Site Recycled Total:	0
6.2 M56:	0
6.2 M92:	0
Off-Site Recovery Total:	0
6.2 M40:	0
6.2 M50:	0
6.2 M54:	0
6.2 M61:	0
6.2 M69:	0
6.2 M95:	0
Off-Site Treated Total:	0
Total Releases:	12446
8.1 Releases:	0
8.1A On-Site Contained Rel:	0
8.1B On-Site Other Rel:	0
8.1C Off-Site Contained Rel:	0
8.1D Off-Site Other Releases:	0
8.2 On-Site Energy Recovery:	0
8.3 Energy Recovery Off-Site:	0
8.4 On-Site Recycling:	0
8.5 Recycling Off-Site:	0
8.6 On-Site Treatment:	0
8.7 Treatement Off-Site:	0
Production Waste:	0
8.8 One-Time Release:	0
8.9 Production Ratio:	
Parent Company Name:	GMC
Parent Company DB No:	005356613
Industry Sector Code:	
Industry Sector:	
5.4 Underground:	
5.5.1 Landfills:	
Prod Ratio or Activity:	

88	***1 of 1***	***E***	***0.22 / 1,176.90***	***471.44 / 18***	***1200 W SAN BERNARDINO RD WEST COVINA CA 917911029***	***LA HMS***

Site No:	016512
Area:	6C

Detail Info

Permit No:		**Permit Status Code:**	
Permit Cat Desc:		**Permit Category:**	
Status Code:	OPEN	**File No:**	021895
Status Desc:	File Opened, no permit exists	**File Name:**	HUGHES TRAINING INC
Permit Status Desc:			
Permit Type:			
Permit Type Desc:			

89	***1 of 1***	***ENE***	***0.22 / 1,182.54***	***471.43 / 18***	***LARKELLEN SHELL 1274 W SAN BERNARDINO RD COVINA CA 91722***	***DELISTED TNK***

Delisted Storage Tanks

Facility ID:	26379	**Latitude:**	34.089488
County:	Los Angeles	**Longitude:**	-117.91487
Permitting Agency:	LOS ANGELES COUNTY		
Original Source:	UST		
Record Date:	30-JAN-2017		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
90	1 of 6	E	0.24 / 1,249.61	472.21 / 19	HUGHES TRAINING INC 1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098	RCRA NON GEN

EPA Handler ID: CAD008351827
Gen Status Universe: No Report
Contact Name:
Contact Address: US
Contact Phone No and Ext:
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Private
Receive Date: 19910731

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated November, 2019.

Evaluation Details

Evaluation Start Date: 19941110
Evaluation Type Description: FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19921019
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910725
Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910731
Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920304
Handler Name: HUGHES TRAINING, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: HUGHES TRAINING INC
Date Became Current:
Date Ended Current:
Phone: 818-915-9530
Source Type: Implementer
Street No:
Street 1: 1200 E SAN BERNARDINO RD
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91790-1098

Owner/Operator Ind: Current Owner
Type: Private
Name: HUGHES TRAINING INC
Date Became Current:
Date Ended Current:
Phone: 818-915-9530
Source Type: Notification
Street No:
Street 1: 1200 E SAN BERNARDINO RD
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91791-1098

Historical Handler Details

Receive Dt: 19920304
Generator Code Description: Small Quantity Generator
Handler Name: HUGHES TRAINING, INC.

Receive Dt: 19910725
Generator Code Description: Large Quantity Generator
Handler Name: HUGHES TRAINING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
90	2 of 6	E	0.24 / 1,249.61	472.21 / 19	HUGHES TRAINING INC 1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098	RCRA TSD

EPA Handler ID: CAD008351827
Gen Status Universe: No Report
Contact Name:
Contact Address: US
Contact Phone No and Ext:
Contact Email:
Contact Country: US
Land Type: Private
County Name: LOS ANGELES
EPA Region: 09
Receive Date: 19910731

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated November, 2019.

Evaluation Details

Evaluation Start Date: 19941110
Evaluation Type Description: FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19921019
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910725
Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910731
Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920304
Handler Name: HUGHES TRAINING, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: HUGHES TRAINING INC
Street No:
Street 1: 1200 E SAN BERNARDINO RD
Street 2:

Date Became Current:		**City:**	WEST COVINA
Date Ended Current:		**State:**	CA
Phone:	818-915-9530	**Country:**	
Source Type:	Implementer	**Zip Code:**	91790-1098
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	1200 E SAN BERNARDINO RD
Name:	HUGHES TRAINING INC	**Street 2:**	
Date Became Current:		**City:**	WEST COVINA
Date Ended Current:		**State:**	CA
Phone:	818-915-9530	**Country:**	
Source Type:	Notification	**Zip Code:**	91791-1098

Historical Handler Details

Receive Dt:	19920304
Generator Code Description:	Small Quantity Generator
Handler Name:	HUGHES TRAINING, INC.
Receive Dt:	19910725
Generator Code Description:	Large Quantity Generator
Handler Name:	HUGHES TRAINING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
90	3 of 6	E	0.24 / 1,249.61	472.21 / 19	HUGHES TRAINING INC 1200 E SAN BERNARDINO RD WEST COVINA CA 91791-1098	RCRA CORRACTS

EPA Handler ID:	CAD008351827
Gen Status Universe:	No Report
Contact Name:	
Contact Address:	US
Contact Phone No and Ext:	
Contact Email:	
Contact Country:	US
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	Private
Receive Date:	19910731

Event/Area Details

Area Name:	ENTIRE FACILITY
Event Code:	CA050
Corrective Action Event Descri:	RFA COMPLETED
Actual Date of Event:	20080626
Orig Sched Event Date:	20080626
New Sched Event Date:	
Best Date:	20080626
Groundwater Release Indicator:	
Soil Release Indicator:	
Air Release Indicator:	
Surface Waste Release Ind:	
Event Responsible Agency:	S
Area Name:	ENTIRE FACILITY
Event Code:	CA070NO
Corrective Action Event Descri:	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY
Actual Date of Event:	20080626
Orig Sched Event Date:	20080626
New Sched Event Date:	
Best Date:	20080626
Groundwater Release Indicator:	
Soil Release Indicator:	
Air Release Indicator:	
Surface Waste Release Ind:	
Event Responsible Agency:	S

Area Name: ENTIRE FACILITY
Event Code: CA999NF
Corrective Action Event Descri: CA PROCESS IS TERMINATED-NO FURTHER ACTION
Actual Date of Event: 20080626
Orig Sched Event Date: 20080626
New Sched Event Date:
Best Date: 20080626
Groundwater Release Indicator:
Soil Release Indicator:
Air Release Indicator:
Surface Waste Release Ind:
Event Responsible Agency: S

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated November, 2019.

Evaluation Details

Evaluation Start Date: 19941110
Evaluation Type Description: FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19921019
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910725
Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910731

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Handler Name: HUGHES TRAINING INC
Generator Status Universe: No Report
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920304
Handler Name: HUGHES TRAINING, INC.
Generator Status Universe: No Report
Source Type: Annual/Biennial Report

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: HUGHES TRAINING INC
Date Became Current:
Date Ended Current:
Phone: 818-915-9530
Source Type: Notification

Street No:
Street 1: 1200 E SAN BERNARDINO RD
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91791-1098

Owner/Operator Ind: Current Operator
Type: Private
Name: HUGHES TRAINING INC
Date Became Current:
Date Ended Current:
Phone: 818-915-9530
Source Type: Implementer

Street No:
Street 1: 1200 E SAN BERNARDINO RD
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91790-1098

Historical Handler Details

Receive Dt: 19920304
Generator Code Description: Small Quantity Generator
Handler Name: HUGHES TRAINING, INC.

Receive Dt: 19910725
Generator Code Description: Large Quantity Generator
Handler Name: HUGHES TRAINING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
90	4 of 6	E	0.24 / 1,249.61	472.21 / 19	HUGHES TRAINING INC 1200 E SAN BERNARDINO RD WEST COVINA CA 91791	EMISSIONS

1996 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1997 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19

COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CERR Code:

1998 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1999 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2000 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Toxic Data

Facility ID: 66503
Facility SIC Code: 3724
CO: 19
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: LA
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

90	5 of 6	E	0.24 / 1,249.61	472.21 / 19	***HUGHES SIMULATION SYSTEMS INC.*** ***1200 E SAN BERNARDINO RD*** ***WEST COVINA CA 91790***	***EMISSIONS***

1990 Criteria Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID:	66503	**CERR Code:**	
Facility SIC Code:	3724	**TOGT:**	3.3
CO:	19	**ROGT:**	.1936
Air Basin:	SC	**COT:**	0
District:	SC	**NOXT:**	.1
COID:	LA	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

1990 Toxic Data

Facility ID:	66503	**COID:**	LA
Facility SIC Code:	3724	**DISN:**	SOUTH COAST AQMD
CO:	19	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

90	6 of 6	E	0.24 / 1,249.61	472.21 / 19	**HUGHES TRAINING INC** **1200 E SAN BERNARDINO RD** **WEST COVINA CA 91791**	**LA COUNTY CUPA**

Facility ID:	FA0023010
CERS ID:	0

Inactive Facility Details

PE:	3001

91	1 of 1	E	0.30 / 1,596.41	470.95 / 18	**ROBERT & SUSAN LUNA** **1127 W BADILLO ST #A** **COVINA CA 91722**	**RCRA TSD**

EPA Handler ID:	CAC003007222
Gen Status Universe:	No Report
Contact Name:	IVAN FLORES
Contact Address:	1127 W BADILLO ST #A , , COVINA , CA, 91722 ,
Contact Phone No and Ext:	562-652-1218
Contact Email:	FAVILA@BURNS-ENVIRO.COM
Contact Country:	
Land Type:	
County Name:	LOS ANGELES
EPA Region:	09
Receive Date:	20190325

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190325
Handler Name: ROBERT & SUSAN LUNA
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: ROBERT & SUSAN LUNA
Date Became Current:
Date Ended Current:
Phone: 562-652-1218
Source Type: Implementer
Street No:
Street 1: 1127 W BADILLO ST #A
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

Owner/Operator Ind: Current Operator
Type: Other
Name: IVAN FLORES
Date Became Current:
Date Ended Current:
Phone: 562-652-1218
Source Type: Implementer
Street No:
Street 1: 1127 W BADILLO ST #A
Street 2:
City: COVINA
State: CA
Country:
Zip Code: 91722

92	1 of 1	SW	0.35 / 1,843.45	424.42 / -29	SCE BADILLO SUBSTATION 635 VINCENT AVE WEST COVINA CA 91790	LA SML

Site ID: SD0000750
Case ID: RO0001748
Status: ACTIVE

93	1 of 1	E	0.38 / 2,029.70	480.82 / 27	COVINA BOWL 1060 W SAN BERNARDINO RD COVINA CA 91722	DELISTED HAZ

Siteid: 22171
Latitude: 34.087669
Longitude: -117.911728
Original Source: CHAZ
Record Date: 22-MAR-2018

94	1 of 1	ENE	0.41 / 2,157.30	483.58 / 30	US POSTAL SERVICE COVINA 545 RIMSDALE AVE N COVINA CA 91722	LUST

Global ID: T0603703479
Status: COMPLETED - CASE CLOSED
Status Date: 1996-07-25 00:00:00
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites from GeoTracker Search; LUST Cleanup Sites from GeoTracker Cleanup Sites Data
County: LOS ANGELES
Latitude: 34.089727
Longitude: -117.911597

Download

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: I-09718
Local Case No:
Begin Date: 1993-03-15 00:00:00
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Local Agency: LOS ANGELES COUNTY
CUF Case: NO
Potential Media of Concern: Soil
How Discovered Description:
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
DWR GW Subbasin Name: San Gabriel Valley (4-013)
Disadvantaged Community:
Site History:

Potential COC: Gasoline
How Discovered: Tank Closure
Stop Method:
Stop Description:
Case Worker: YR
File Location:

Regulatory Activity

Action Type: Other
Date : 1993-04-06 00:00:00
Action: Leak Reported

Action Type: Other
Date : 1993-03-15 00:00:00
Action: Leak Discovery

Regulatory Contacts

Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
City: ALHAMBRA
Organization Name: LOS ANGELES COUNTY

Address: 900 S FREMONT AVE
Email: jawujo@dpw.lacounty.gov
Phone No: 6264583507

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
City: Los Angeles
Organization Name: LOS ANGELES RWQCB (REGION 4)

Address: 320 W. 4TH ST., SUITE 200
Email: yrong@waterboards.ca.gov
Phone No:

Status History

Status: Completed - Case Closed
Status Date: 1996-07-25 00:00:00

Status: Open - Site Assessment
Status Date: 1993-04-06 00:00:00

Status: Open - Case Begin Date
Status Date: 1993-03-15 00:00:00

LUST Sites from GeoTracker Search - Regulatory Profile(as of Oct 31, 2019)

Site Facility Name: US POSTAL SERVICE COVINA
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
File Location:

Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 545 RIMSDALE AVE N
City: COVINA
Zip: 91722
County: LOS ANGELES
CUF Claim:

Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603703479
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 7/25/1996
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603703479&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Gabriel Valley (4-013)
Calwater Watershed Name: San Gabriel River - Upper San Gabriel (405.20)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: LOS ANGELES RWQCB (REGION 4) (LEAD) - CASE #: I-09718
CASEWORKER: YUE RONG
LOS ANGELES COUNTY
CASEWORKER: JOHN AWUJO
Gndwater Monitoring Freque:
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History(as of Oct 31, 2019)

Status: Completed - Case Closed
Date : 7/25/1996

Status: Open - Site Assessment
Date : 4/6/1993

Status: Open - Case Begin Date
Date : 3/15/1993

LUST Sites from GeoTracker Search - Regulatory Activities(as of Oct 31, 2019)

Action Type: Leak Action
Action Date: 4/6/1993
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 3/15/1993
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

95	1 of 3	ENE	0.44 / 2,307.48	485.43 / 32	CONRAC CORP-CONRAC DIV. 600 N RIMSDALE AVE COVINA CA 91722	CERCLIS

Site ID: 0901439
Site EPA ID: CAD053869293
Site Street Address 2:
Site County Name: LOS ANGELES
Site FIPS Code: 06037
Region Code: 09
Site SMSA No.: 4480
Site Prim. Latitude: 34D05M18S
Site Prim. Longitude: 117D54M42S
Lat Long Source:
RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

RNPL Status Code: N
NPL Status: Not on the NPL
RFED Facility Code: N
RFED Facility Desc: Not a Federal Facility
USGS Hydro Unit No.: 18070106
Site Cong. Dist. Code: 30
ROT Desc: Unknown
FR NPL Update No.:
RFRA Code:

CERCLIS Assess History

OU ID:	00	***RALT Short Name:***	EPA Fund
Act Code ID:	001	***Act Start Date:***	
RAT Code:	PA	***Act Complete Date:***	10/1/1986 00:00:00
RAT Short Name:	PA	***AGT Order No.:***	130
RAT Name:	PRELIMINARY ASSESSMENT	***SH OU:***	
RAT Hist. Only Flag:		***SH Code:***	
RAT NSI Indicator:	B	***SH Seq:***	
RAT Level:	1	***SH Start Date:***	
RAT DEF OU:	00	***SH Complete Date:***	
RFBS Code:	P	***SH Lead:***	
SPA Code:	13		

RAT Def: Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.

Site Desc:

Site Alias:

CERCLIS Assess History

OU ID:	00	***RALT Short Name:***	
Act Code ID:		***Act Start Date:***	
RAT Code:		***Act Complete Date:***	
RAT Short Name:		***AGT Order No.:***	0
RAT Name:		***SH OU:***	
RAT Hist. Only Flag:		***SH Code:***	
RAT NSI Indicator:		***SH Seq:***	
RAT Level:		***SH Start Date:***	
RAT DEF OU:		***SH Complete Date:***	
RFBS Code:		***SH Lead:***	
SPA Code:			

RAT Def:

Site Desc: THE FACILITY IS A MFG OF VIDEO MONITORS & HAS BEEN IN OPER SINCE 1966. NO KNOWN SOLVENT WAS USED ON-SITE.THE ONLY OTHERWASTE ON-SITE WAS A CORROSIVE LIQUID WHICH IS DISPOSED OF OFF-SITE AT BKK LDFL.

.

Site Alias: No alias data available

CERCLIS Assess History

OU ID:	00	***RALT Short Name:***	EPA In-House
Act Code ID:	001	***Act Start Date:***	
RAT Code:	VS	***Act Complete Date:***	10/1/1986 00:00:00
RAT Short Name:	ARCH SITE	***AGT Order No.:***	1500
RAT Name:	ARCHIVE SITE	***SH OU:***	
RAT Hist. Only Flag:		***SH Code:***	
RAT NSI Indicator:	B	***SH Seq:***	
RAT Level:	1	***SH Start Date:***	
RAT DEF OU:	00	***SH Complete Date:***	
RFBS Code:		***SH Lead:***	
SPA Code:	13		

RAT Def: The decision is made that no further activity is planned at the site.

Site Desc:

Site Alias:

CERCLIS Assess History

OU ID:	00	***RALT Short Name:***	EPA Fund
Act Code ID:	001	***Act Start Date:***	
RAT Code:	DS	***Act Complete Date:***	4/1/1985 00:00:00
RAT Short Name:	DISCVRY	***AGT Order No.:***	10
RAT Name:	DISCOVERY	***SH OU:***	
RAT Hist. Only Flag:		***SH Code:***	
RAT NSI Indicator:	B	***SH Seq:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

RAT Level:	1	**SH Start Date:**	
RAT DEF OU:	00	**SH Complete Date:**	
RFBS Code:		**SH Lead:**	
SPA Code:	13		
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
Site Desc:			
Site Alias:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
95	2 of 3	ENE	0.44 / 2,307.48	485.43 / 32	CONRAC CORP-CONRAC DIV. 600 N RIMSDALE AVE COVINA CA 91722	CERCLIS NFRAP

Site ID:	901439	**Site FIPS Code:**	6037
Site EPA ID:	CAD053869293	**Region Code:**	9
Site Parent ID:		**Site Cong. Dist. Code:**	30
Site County Name:	LOS ANGELES	**Federal Facility:**	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	**Act Start Date:**	
Act Code ID:	1	**Act Complete Date:**	4/1/1985
RAT Code:	DS	**AGT Order No.:**	10
RAT Short Name:	DISCVRY	**SH OU:**	
RAT Name:	DISCOVERY	**SH Code:**	
RAT Hist. Only Flag:		**SH Seq:**	
RAT NSI Indicator:	B	**SH Start Date:**	
RAT Level:	1	**SH Complete Date:**	
RAT DEF OU:	00	**SH Lead:**	
RFBS Code:		**SH Qual:**	
SPA Code:	13	**RAQ Act. Qual Short:**	
RALT Short Name:	EPA Fund	**RNPL Status Code:**	N
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	**Act Start Date:**	
Act Code ID:	1	**Act Complete Date:**	10/1/1986
RAT Code:	PA	**AGT Order No.:**	130
RAT Short Name:	PA	**SH OU:**	
RAT Name:	PRELIMINARY ASSESSMENT	**SH Code:**	
RAT Hist. Only Flag:		**SH Seq:**	
RAT NSI Indicator:	B	**SH Start Date:**	
RAT Level:	1	**SH Complete Date:**	
RAT DEF OU:	00	**SH Lead:**	
RFBS Code:	P	**SH Qual:**	
SPA Code:	13	**RAQ Act. Qual Short:**	NFRAP
RALT Short Name:	EPA Fund	**RNPL Status Code:**	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	**Act Start Date:**	
Act Code ID:	1	**Act Complete Date:**	10/1/1986
RAT Code:	VS	**AGT Order No.:**	1500
RAT Short Name:	ARCH SITE	**SH OU:**	
RAT Name:	ARCHIVE SITE	**SH Code:**	
RAT Hist. Only Flag:		**SH Seq:**	
RAT NSI Indicator:	B	**SH Start Date:**	
RAT Level:	1	**SH Complete Date:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

RAT DEF OU:	00	**SH Lead:**	
RFBS Code:		**SH Qual:**	
SPA Code:	13	**RAQ Act. Qual Short:**	
RALT Short Name:	EPA In-House	**RNPL Status Code:**	N
RAT Def:	The decision is made that no further activity is planned at the site.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
95	3 of 3	ENE	0.44 / 2,307.48	485.43 / 32	CONRAC CORP-CONRAC DIV. 600 N RIMSDALE AVE COVINA CA 91722	SEMS ARCHIVE

Site ID:	0901439	**FIPS Code:**	06037
EPA ID:	CAD053869293	**Cong District:**	30
NPL:	Not on the NPL	**Region:**	09
Federal Facility:	No	**County:**	LOS ANGELES
Superfund Alt Agmt:	No		
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information		

Action Information

Operable Units:	00	**Start Actual:**	04/01/1985
Action Code:	DS	**Finish Actual:**	04/01/1985
Action Name:	DISCVRY	**Qual:**	
SEQ:	1	**Curr Action Lead:**	EPA Perf
Operable Units:	00	**Start Actual:**	
Action Code:	VS	**Finish Actual:**	10/01/1986
Action Name:	ARCH SITE	**Qual:**	
SEQ:	1	**Curr Action Lead:**	EPA Perf In-Hse
Operable Units:	00	**Start Actual:**	
Action Code:	PA	**Finish Actual:**	10/01/1986
Action Name:	PA	**Qual:**	N
SEQ:	1	**Curr Action Lead:**	EPA Perf

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
96	1 of 1	ESE	0.50 / 2,623.92	473.42 / 20	CONNIE MAREAS 1638 E LOUISA AVE WEST COVINA CA 91791	RCRA TSD

EPA Handler ID:	CAC003017689
Gen Status Universe:	No Report
Contact Name:	CONNIE MAREAS
Contact Address:	1638 E LOUISA AVE , , WEST COVINA , CA, 91791 ,
Contact Phone No and Ext:	626-488-5797
Contact Email:	KC@AQHIINC.COM
Contact Country:	
Land Type:	
County Name:	LOS ANGELES
EPA Region:	09
Receive Date:	20190603

Violation/Evaluation Summary

Note:	NO RECORDS: As of November 2019, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No

Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190603
Handler Name: CONNIE MAREAS
Generator Status Universe: No Report
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: CONNIE MAREAS
Date Became Current:
Date Ended Current:
Phone: 626-488-5797
Source Type: Implementer
Street No:
Street 1: 1638 E LOUISA AVE
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91791

Owner/Operator Ind: Current Owner
Type: Other
Name: CONNIE MAREAS
Date Became Current:
Date Ended Current:
Phone: 626-488-5797
Source Type: Implementer
Street No:
Street 1: 1638 E LOUISA AVE
Street 2:
City: WEST COVINA
State: CA
Country:
Zip Code: 91791

---

97 | ***1 of 1*** | ***WNW*** | ***0.96 / 5,086.55*** | ***426.43 / -27*** | ***BAXTER PHARMASEAL 4401 FOXDALE AVENUE IRWINDALE CA 91706*** | ***ENVIROSTOR***

Estor/EPA ID: 19380055
Site Code:
Nat Priority List: NO
APN: 8417004009
Census Tract: 6037404600
Site Type: * HISTORICAL
Address Description: 4401 FOXDALE AVENUE
Office: CLEANUP CHATSWORTH
Special Program:
Funding:
Assembly District: 48
Senate District: 22
Permit Renewal Lead:
Public Partici Spclst:
Project Manager:
County: LOS ANGELES
Latitude: 34.0939732087225
Longitude: -117.938128061146
Acres: NONE SPECIFIED
Supervisor:
Cleanup Status: REFER: RWQCB AS OF 5/16/1995
Cleanup Oversight Agencies: NONE SPECIFIED
School District:
Past Use that Caused Contam: NONE SPECIFIED
Potential Media Affected: NONE SPECIFIED
Potential Contamin of Concern:

NONE SPECIFIED

Site History:

Status: REFER: RWQCB
Program Type: HISTORICAL
CalEnviroScreen Score: 91-95%
Summary Link: http://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19380055

Completed Activities

Title: Site Screening
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Screening
Date Completed: 7/21/1994
Comments: Site screening/visit conducted. Ejie Solomon at RWQCB is Project Manager supervising cleanup activities at the site.

Title: Site Screening
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Screening
Date Completed: 6/26/1991
Comments: RWQCB conducted a site inspection of Baxter Pharmaseal in December 1989. As a result of the investigation, a subsurface investigation was conducted to determine the extent of contamination in the dioctyl phthalate (DOP) tank/precipatate collection and clarifier areas. Phase I and Phase II investigations were completed on 06/22/90 and 01/14/91 respectively. Phase I and Phase II investigations indicate that hazardous substances (PCE), toluene, freon-TF, Bis (2-ethyl hexyl phthalate (BEHP) have contaminated the soil. EPA recommends for a high priority SSI, DHS recommends high priority PEA.

Title: Discovery
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: * Discovery
Date Completed: 5/3/1991
Comments: Listed on RCRA database as a hazardous waste generator since 07/30/1980.

Unplottable Summary

Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
HIST MANIFEST		BADILLO SUBSTATION	WEST COVINA CA	0	827472920

Unplottable Report

Site:

BADILLO SUBSTATION WEST COVINA CA 0

HIST MANIFEST

Gen EPA ID:	CAC000853904
Create Date:	9/30/1992 0:00:00
Inact Date:	10/25/2000 0:00:00
Facility Mail Street:	2244 WALNUT GOVE AVENUE
Facility Mail City:	ROSEMEAD
Facility Mail State:	CA
Facility Mail Zip:	917700000
Contact Phone(s):	7148205565
File Year(s):	1992
Contact Name(s):	JOHN INGRAM/COORDINATOR

Tanner Information

Method Description:	
Tons:	3.37
Year:	1992
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	3
Tsd County Code:	5
Tsd County:	
State Waste Code:	151
State Waste Code Desc:	Asbestos containing waste
Tsd Epa ID:	CAL000027741

Tanner Information

Method Description:	
Tons:	0
Year:	1992
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	
Tsd County Code:	5
Tsd County:	
State Waste Code:	
State Waste Code Desc:	
Tsd Epa ID:	CAL000027741

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Jan 30, 2020

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Jan 30, 2020

Deleted NPL: DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Jan 30, 2020

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Nov 25, 2019

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Nov 25, 2019

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Nov 18, 2019

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Nov 18, 2019

RCRA Generator List: RCRA LQG

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Nov 18, 2019

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Nov 18, 2019

RCRA Conditionally Exempt and Very Small Quantity Generators List: RCRA CESQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt and Very Small Quantity Generators (VSQG and CESQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG and CESQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Nov 18, 2019

RCRA Non-Generators: RCRA NON GEN

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Nov 18, 2019

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jun 11, 2019

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Jun 11, 2019

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Nov 25, 2019

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Sep 3, 2019

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Oct 8, 2019

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jan 13, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Nov 25, 2019

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Jan 30, 2020

State

State Response Sites: RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jan 15, 2020

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Jan 15, 2020

Delisted State Response Sites: DELISTED ENVS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Jan 15, 2020

Solid Waste Information System (SWIS): SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Feb 5, 2020

EnviroStor Hazardous Waste Facilities: HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Jan 15, 2020

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report: SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Land Disposal Sites: LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Nov 14, 2019

Leaking Underground Fuel Tank Reports: LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Nov 14, 2019

Delisted Leaking Storage Tanks: DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Jan 13, 2020

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels: SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Permitted Underground Storage Tank (UST) in GeoTracker: UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Nov 14, 2019

Proposed Closure of Underground Storage Tank Cases: UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

Government Publication Date: Jan 13, 2020

Historical Hazardous Substance Storage Information Database: HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Aboveground Storage Tanks: AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

Oil and Gas Facility Tanks: TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Jan 30, 2020

Delisted Storage Tanks: DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Feb 21, 2020

California Environmental Reporting System (CERS) Tanks: CERS TANK

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Feb 18, 2020

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions: LUR

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Jan 15, 2020

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions: HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Jan 13, 2020

Deed Restrictions and Land Use Restrictions: DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Nov 14, 2019

Voluntary Cleanup Program: VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Jan 15, 2020

GeoTracker Cleanup Program Sites: CLEANUP SITES

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Nov 14, 2019

Delisted County Records: DELISTED COUNTY

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Mar 6, 2020

Delisted California Environmental Reporting System (CERS) Tanks: DELISTED CTNK

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Feb 18, 2020

Historical Hazardous Substance Storage Container Information - Facility Summary: HIST TANK

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in th 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands: INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2019

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2019

Delisted Tribal Leaking Storage Tanks: DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: May 2, 2019

Delisted Tribal Underground Storage Tanks: DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: May 2, 2019

County

Los Angeles County - Site Mitigation List: LA SML

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: Dec 10, 2019

Los Angeles County - Solid Waste Sites: LA SWF

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Feb 5, 2020

Los Angeles County - CUPA Program Records: LA COUNTY CUPA

A list of inspection and enforcement records for active and inactive CUPA Program facilities, made available by the Health Hazardous Materials Division (HHMD) of the County of Los Angeles Fire Department. Includes Hazardous Materials Business Plan (HMBP), California Accidental Release Prevention Plan (CalARP), Hazardous Waste Generator (HWG), and the Aboveground Petroleum Storage Act Programs (APSA). Inactive programs include facilities that are out of business or no longer regulated by the HHMD.

Government Publication Date: Dec 10, 2019

Los Angeles County - HMS List: LA HMS

List of sites in the Los Angeles County Department of Public Works Hazardous Materials System (HMS) Database which have or have had permits for Industrial Waste, Underground Storage Tanks, or Stormwater in the county of Los Angeles.

Government Publication Date: Jan 15, 2020

Los Angeles County - Santa Fe Springs Underground Storage Tank: UST SANTAFESP

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Fe Springs. This list is made available by Santa Fe Springs Department of Fire-Rescue.

Government Publication Date: Sep 25, 2019

Los Angeles County - Long Beach UST List: UST LONGB

List of registered Underground Storage Tanks (USTs) in the City of Long Beach, Los Angeles County, made available by the Long Beach Certified Unified Program Agency (CUPA). The Long Beach CUPA operates under oversight shared by the Long Beach Fire Department and Health Department.

Government Publication Date: Jul 9, 2018

Los Angeles County - Burbank City CUPA List: BURBANK CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Burbank. This list is made available by the City of Burbank Fire Department.

Government Publication Date: Aug 21, 2019

Los Angeles County - El Segundo City Underground Storage Tanks List: UST ELSEGUNDO

List of registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County, made available by El Segundo City Fire Department.

Government Publication Date: Jan 17, 2017

Los Angeles County - Santa Monica City Underground Storage Tank List: UST SANTA MONICA

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Monica made available by Santa Monica Fire Prevention Division.

Government Publication Date: Jul 25, 2019

Los Angeles County - Santa Monica City Aboveground Storage Tank List: SANTAMON AST

List of registered Aboveground Storage Tanks (ASTs) made available by the Santa Monica Fire Department in the City of Santa Monica of Los Angeles County, California.

Government Publication Date: Jul 19, 2019

Los Angeles County - Santa Monica City CUPA Facilities List: SANTAMON CUPA

The Santa Monica Fire Department's office maintains a list of CUPA Facilities located in Santa Monica city.

Government Publication Date: Jul 19, 2019

Los Angeles County - Torrance City Underground Storage Tanks: UST TORRANCE

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Jun 27, 2019

Los Angeles County - Vernon City UST List: UST VERNON

A list of Underground Storage Tanks (UST) in Vernon City provided by the Vernon City Fire Department.

Government Publication Date: Feb 5, 2020

Los Angeles County - Vernon City CUPA List: VERNON CUPA

The Vernon City Fire Department's office maintains a list of CUPA Facilities located in Vernon city.

Government Publication Date: Feb 5, 2020

Los Angeles County - City of Los Angeles UST List: UST LA CITY

A list of active and inactive underground storage tank facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Los Angeles County - City of Los Angeles AST List: AST LA CITY

A list of active and inactive above ground petroleum storage tanks made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Los Angeles County - City of Los Angeles Hazardous Materials Facilities: LA CITY HAZMAT

A list of active and inactive hazardous materials facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Additional Environmental Record Sources

Federal

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Nov 15, 2019

Facility Registry Service/Facility Index: FINDS/FRS

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

Government Publication Date: Nov 6, 2019

Toxics Release Inventory (TRI) Program: TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Dec 31, 2017

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Dec 31, 2017

Perfluorinated Alkyl Substances (PFAS) Water Contamination: PFAS WATER CONTAM

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Dec 20, 2019

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Jan 8, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Sep 26, 2019

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Jun 30, 2017

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Oct 25, 2019

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Nov 18, 2016

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 29, 2018

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 29, 2018

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Oct 23, 2018

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: Nov 1, 2018

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 6, 2019

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Jan 8, 2020

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: May 31, 2019

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Oct 9, 2019

State

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Feb 3, 2020

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Feb 3, 2020

Non-Toxic Dry Cleaning Incentive Program: DRYC GRANT

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2018

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

List of sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 14, 2019

PFOA/PFOS Groundwater: PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.Y

Government Publication Date: Jan 15, 2020

Hazardous Waste and Substances Site List - Site Cleanup: HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: Feb 25, 2020

List of Hazardous Waste Facilities Subject to Corrective Action: DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement: INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Jan 16, 2020

School Property Evaluation Program Sites: SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Jan 15, 2020

California Hazardous Material Incident Report System (CHMIRS): CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Oct 23, 2019

Hazardous Waste Manifest Data: HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 24, 2016

Historical California Hazardous Material Incident Report System (CHMIRS): HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Historical Hazardous Waste Manifest Data: HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

Historical Cortese List: HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders: CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Feb 16, 2012

California Environmental Reporting System (CERS) Hazardous Waste Sites: CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Feb 18, 2020

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites: DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker: GEOTRACKER

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Nov 14, 2019

Waste Discharge Requirements: WASTE DISCHG

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Nov 14, 2019

Toxic Pollutant Emissions Facilities: EMISSIONS

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2017

Clandestine Drug Lab Sites: CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Jun 30, 2018

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County - Santa Monica City Hazardous Materials Facilities: SANTAMON HAZ

A list of Hazardous Materials Facilities in the City of Santa Monica, Los Angeles county. This list is made available by Santa Monica Fire Prevention Division which has been designated as the CUPA for the City.

Government Publication Date: Mar 12, 2020

Los Angeles County - Santa Monica City Hazardous Waste Facilities: SANTAMON HW

A list of Hazardous Waste Facilities in Los Angeles County, City of Santa Monica. This list is made available by Santa Monica Fire Prevention Division.

Government Publication Date: Jul 19, 2019

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

ENVIRONMENTAL RISK INFORMATION SERVICES

HISTORICAL AERIALS

Project Property: PNR0651FW1/267A (DAX9)
1211 Badillo Street
West Covina CA 91790

Requested By: Geosyntec Consultants

Order No: 20200319269

Data Completed: March 20,2020

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Source Scale	Comments
2018	National Agriculture Information Program	1" to 500'	
2016	National Agriculture Information Program	1" to 500'	
2014	National Agriculture Information Program	1" to 500'	
2012	National Agriculture Information Program	1" to 500'	
2010	National Agriculture Information Program	1" to 500'	
2005	National Agriculture Information Program	1" to 500'	
1995	US Geological Survey	1" to 500'	
1987	National High Altitude Photography	1" to 500'	
1980	US Geological Survey	1" to 500'	
1972	US Geological Survey	1" to 500'	
1964	US Geological Survey	1" to 500'	
1960	Private Company	1" to 500'	
1952	US Geological Survey	1" to 500'	
1948	Agriculture and Soil Conservation Service	1" to 500'	
1938	Agriculture and Soil Conservation Service	1" to 500'	
1928	Private Company	1" to 500'	



Year:2018
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:2016
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:2014
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:2012
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES

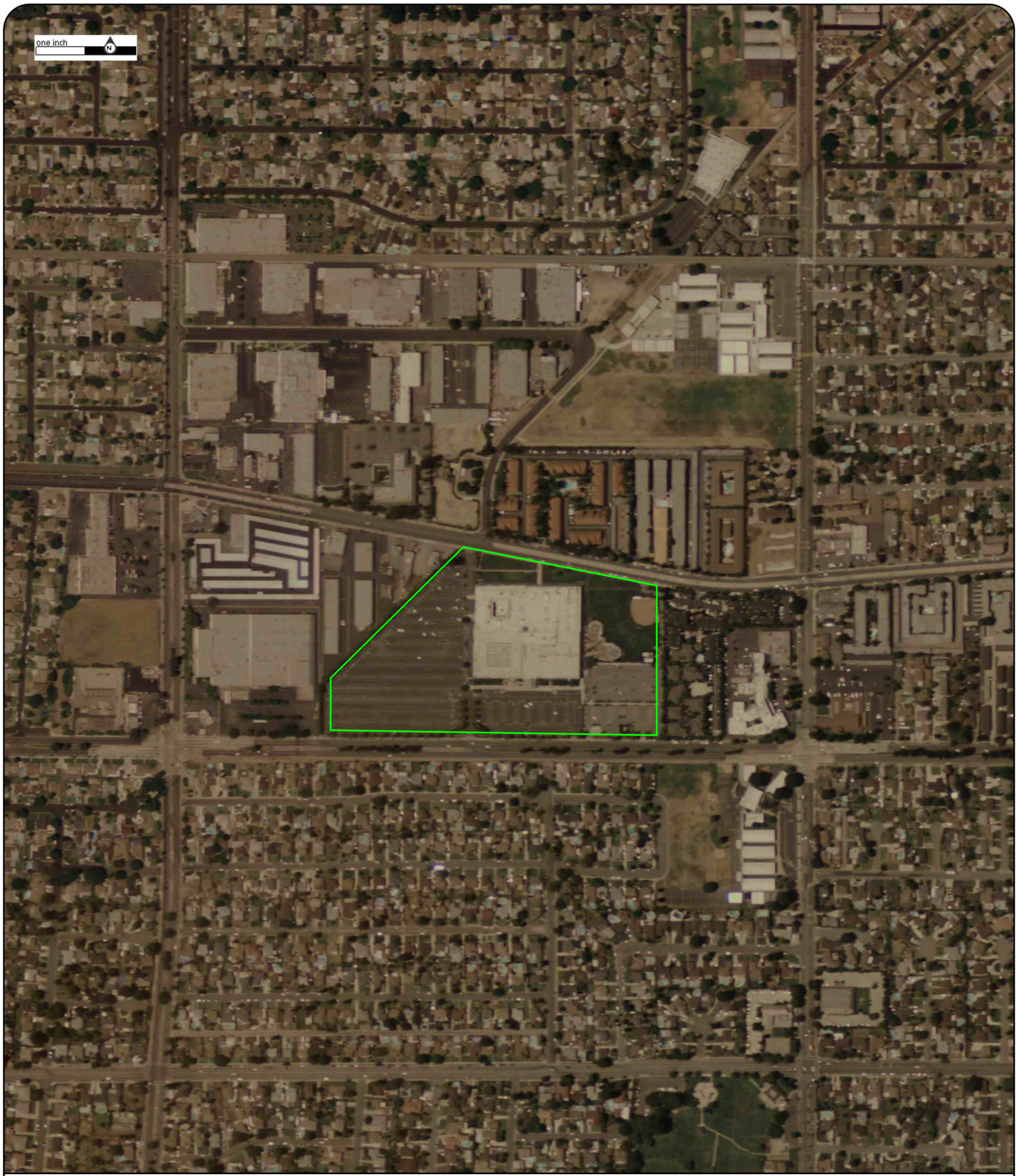


Year:2010
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:2005
Source:NAIP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1995
Source:USGS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1987
Source:NHAP
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1980
Source:USGS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1972
Source:USGS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1964
Source:USGS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1960
Source:FAIRCHILD
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1952
Source:USGS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1948
Source:ASCS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES

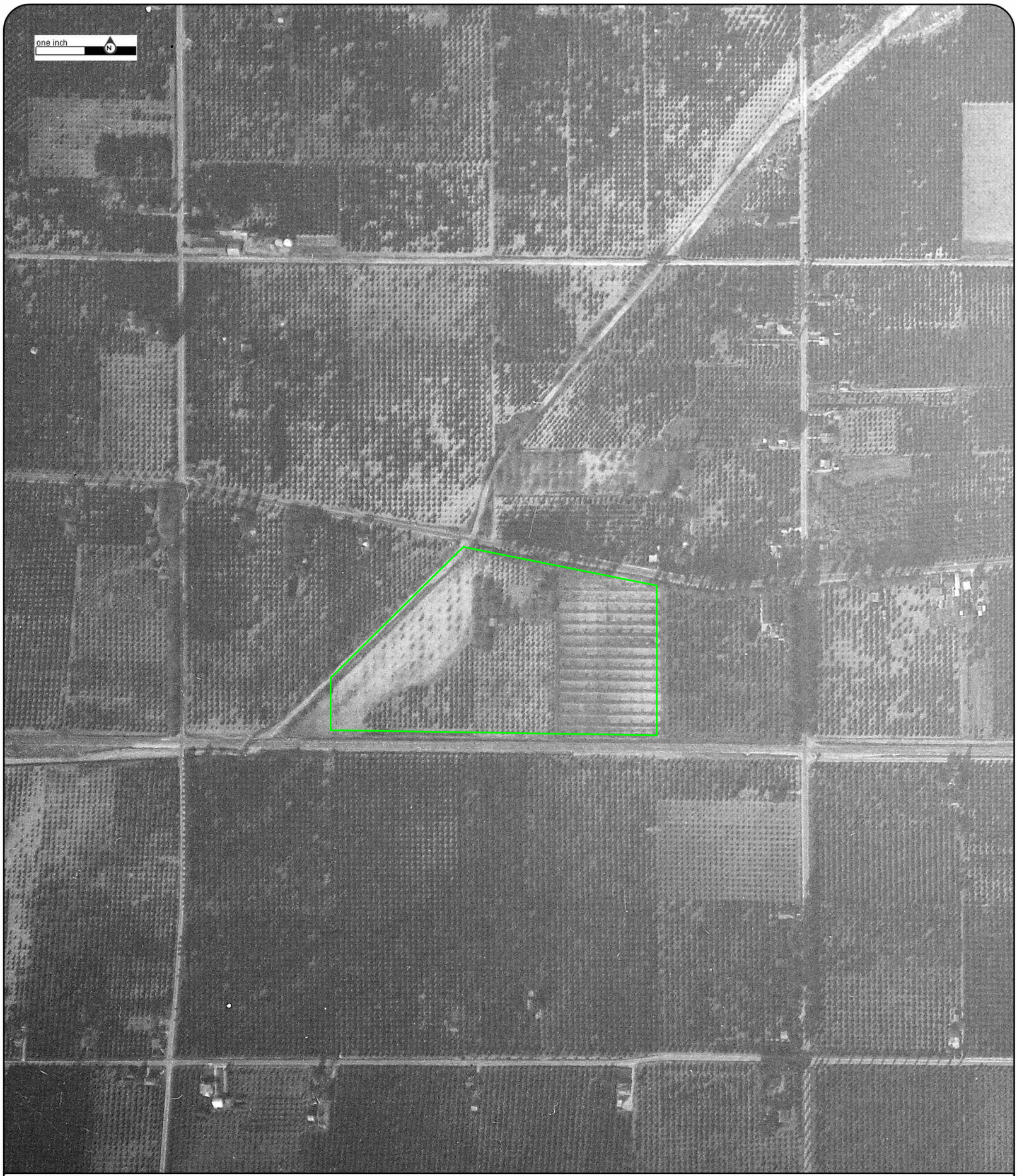


Year:1938
Source:ASCS
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES



Year:1928
Source:FAIRCHILD
Scale:1" to 500'
Comment:

Address:1211 Badillo Street,West Covina,CA
Approx Center:34.08754426/-117.92074178

Order No:20200319269

ENVIRONMENTAL RISK INFORMATION SERVICES

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property:	*PNR0651FW1/267A (DAX9)* *1211 Badillo Street* *West Covina, CA 91790*
Project No:	*PNR0651FW1/267A (DAX9)*
Requested By:	*Geosyntec Consultants*
Order No:	*20200319269*
Date Completed:	*March 24, 2020*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

March 24, 2020
RE: CITY DIRECTORY RESEARCH
PNR0651FW1/267A (DAX9)
1211 Badillo Street West Covina, CA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:

1000-1499 of Badillo Street
1000-1699 of San Bernardino Road

Search Results Summary

Date	Source	Comment
2018	DIGITAL BUSINESS DIRECTORY	
2014	DIGITAL BUSINESS DIRECTORY	
2010	DIGITAL BUSINESS DIRECTORY	
2006	DIGITAL BUSINESS DIRECTORY	
2002	DIGITAL BUSINESS DIRECTORY	
1994-1995	HAINES	
1990-1991	HAINES	
1986	HAINES	
1979	HAINES	
1975	HAINES	
1972	HAINES	
1966	GENERAL TELEPHONE OF CALIFORNIIA	
1962	GENERAL TELEPHONE OF CALIFORNIIA	
1951	STREET ADDRESS DIRECTORY	

1014 **CARINDALE COVINA CARE HOME**...*Health Ca*
1014 **CARINDALE COVINA CARE HOME**...*Nursing C*
1039 **CORDOVA ASSOC INC**...*Offices Of Real E*
1041 **ALL-WAYS FAST WATER DAMAGE**...*Fire Dama*
1041 **EM CARE**...*Emergency Medical & Surgical*
1041 **EM CARE**...*Medical Management Service*
1041 **HAMILTON, STEVEN J**...*Attorneys*
1041 **HOUSEHOLD FINANCE CORP**...*Financing*
1065 **SPRINT**...*Cellular Telephones (services*
1067 **BRIDGE CHURCH**...*Churches*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Feder*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Socia*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Foste*
1100 **QUICKSAND**...*Sandblasting*
1111 **UNITY CHURCH OF THE FOOTHILLS**...*Church*
1211 **FAITH COMMUNITY CHR WEST CVN**...*Churche*
1211 **JUBILEE CHRISTIAN PRESCHOOL**...*Schoolsu*
1211 **JUBILEE CHRISTIAN PRESCHOOL**...*Schools<*
1437 **CHURCH OF THE NAZARENE**...*Churches*
1437 **ST JUDE MISSION**...*Churches*

123 total records. *Part 1 of 3*
1009 **OWL WESTRN PHARMACY**...*PHARMACEUTI*
1017 **PIONEER DOOR**...*DOORS-GARAGE*
1017 **PIONEER DOOR**...*DOORS*
1025 **TEA HEALTHCARE SVC INC**...*HOME HEA*
1025 **TEA HEALTHCARE SVC INC**...*HEALTH C*
1035 **LEWIS ENGRAVING & NOVELTIES**...*TSH*
1035 **LEWIS ENGRAVING & NOVELTIES**...*COM*
1035 **LEWIS ENGRAVING & NOVELTIES**...*TRO*
1035 **LEWIS ENGRAVING & NOVELTIES**...*PRI*
1039 **LOS ALAZANES MEXICAN FOOD**...*RESTA*
1055 **CATANO INSURANCE**...*CREDIT UNIONS<*
1055 **CATANO INSURANCE**...*INSURANCE*
1060 **BRUNSWICK COVINA BOWLING LANES**...
1060 **BRUNSWICK COVINA BOWLING LANES**...
1060 **KING PIN PRO SHOP**...*BOWLING CENTE*
1069 **TOWN SENT**...*RESTAURANTS*
1108 **PREGAMESPORTS**...*NONCLASSIFIED EST*
1109 **BIOTECH MEDICAL**...*MEDICAL MANAGEM*
1109 **BIOTECH MEDICAL**...*BILLING SERVICE*
1109 **CONSOLIDATED STAFFING SOLUTION**...
1109 **LUCY SALAZAR & ASSOC**...*TAX RETURN*
1109 **MOUTON S CREOLE CAJUN SPICE**...*SPI*
1109 **MOUTON S CREOLE CAJUN SPICE**...*HEA*
1109 **SURE CARE HEALTH SVC**...*HEALTH CAR*
1109 **SURE CARE HEALTH SVC**...*HOME HEALT*
1109 **TM PROFESSIONALS**...*INSURANCE AGEN*
1118 **LOS FAROLES MEXICAN GRILL**...*RESTA*
1118 **MAR Y TIERRA RESTAURANT**...*RESTAUR*
1131 **FERNANDEZ FAMILY DENTISTRY**...*FEDE*
1131 **FERNANDEZ FAMILY DENTISTRY**...*DENT*
1139 **MERCURY TERMITE & PEST CONTROL**...
1139 **MERCURY TERMITE PEST CONTROL**...*BE*
1145 **BATAYO FINANCIAL SVC**...*FINANCIAL*
1170 **REMM GROUP**...*APARTMENTS*
1171 **AARON P SHARMA & ASSOC INC**...*FEDE*
1171 **AARON P SHARMA & ASSOC INC**...*ACCO*
1171 **AMERICAN PROFESSIONAL SVC**...*INSUR*
1171 **BALCAZAR LETICIA D**...*ATTORNEYS*
1171 **GERSTENBERG GROUP**...*INVESTIGATORS*
1171 **PAEZ PATROL SECURITY INC**...*SECURI*
1171 **PAEZ PATROL SECURITY INC**...*WILDLI*
1205 **JOHNSON ROY A CPA**...*ACCOUNTANTS<*
1217 **EXPRESS LOANS & INVESTMENTS**...*LOA*
1217 **EXPRESS LOANS & INVESTMENTS**...*FIN*
1217 **METRO CITY INC**...*REAL ESTATE*
1220 **OLIVE TREE APARTMENTS**...*APARTMENT*
1220 **STRETCH ELECTRIC**...*ELECTRICAL CON*
1229 **CES HOME IMPROVEMENT**...*HOME IMPRO*
1247 **KID ZONE CHILDREN CTR**...*SCHOOLS-N*
1250 **LARK APARTMENTS**...*APARTMENTS*
1255 **ORTHOPAEDIC REHAB CTR**...*ARTIFICIA*
1257 **DEMERJIAN JIAN H DPM**...*PODIATRIS*
1257 **FOOT ANKLE CTR**...*PHYSICIANS & SU*

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

Part 2 of 3

1259 **QUEST DIAGNOSTICS**...*Laboratories-medic*
1267 **HARA PODIATRISTS GROUP INC**...*Podiatris*
1274 **SPOT FREE CAR WASH**...*Car Washing/polis*
1275 **7-ELEVEN**...*Convenience Stores<*
1343 **COVINA PALMS APARTMENTS**...*Apartments*
1350 **LA ELLEN VILLAGE MAIN OFFICE**...*Apartme*
1350 **LARK ELLEN VILLAGE MAIN OFFICE**...*Apart*
1375 **MOUNTAIN VIEW VENTURE**...*Federal Govern*
1375 **MOUNTAIN VIEW VENTURE**...*Apartments*
1375 **XPRESS YELLOW CAB**...*Nonclassified Esta*
1513 **SERRANO APARTMENTS**...*Apartments*
1530 **LISA'S COFFEE SHOP**...*Restaurants*
1554 **BUD'S MUFFLER SHOP**...*Mufflers & Exhaus*
1554 **U-HAUL NEIGHBORHOOD DEALER**...*Truck Ren*
1566 **CAR AUTO INNOVATIONS**...*Nonclassified E*
1572 **ACURA VISION LLC**...*Automobile Radio &*
1572 **ACURA VISION LLC**...*Optometrists Od*
1572 **ACURA VISION LLC**...*Contact Lenses*
1576 **DISCOTECA MEXICO INCOME TAX**...*Party Su*
1576 **JACOB'S PARADISE INC**...*Novelties-whole*
1578 **COVINA SIGN ENTERPRISE**...*Signs (mfrs)<*
1578 **HOUSE OF METAL ENGINEERING INC**...*Sheet*
1578 **SMART BEAN INC**...*Dolls-wholesale*
1578 **VENTRA TECHNOLOGY INC**...*Security Syste*
1580 **ACTION MAINTENANCE**...*Janitor Service*
1580 **ARIES ACTION MAINTENANCE**...*Janitor Ser*
1580 **DEFINE DESIGN PRINTING**...*Services Nec<*
1580 **DEFINE DESIGN PRINTING**...*Copying & Dup*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Metal G*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Electri*
1580 **FRAIJO BROTHER INC**...*Engineers-constru*
1580 **G & M PRECISION**...*Dies (mfrs)<*
1580 **G & M PRECISION**...*Machine Shops (mfrs)*
1580 **PRIOM INC**...*Physicians & Surgeons Equi*
1580 **PRIOM INC**...*Medical Equipment-repairin*
1580 **REV WINERY**...*Wineries (mfrs)*
1580 **ROCKET LAB**...*Automobile Parts & Suppli*
1580 **ROMERO ESTATE VINEYARD**...*Vineyards*
1600 **DROP YOUR JEANS OFF INC**...*Mens & Boys*
1600 **DROP YOUR JEANS OFF INC**...*Clothing-who*
1611 **BLACK WHITE EMERGENCY**...*Automotive Pa*
1611 **C M L NURSING SVC GROUP INC**...*Nurses &*
1611 **CAYOH TRADING INC**...*Unclassified Estab*
1611 **ENTERTAIN PALLET SOLUTIONS**...*Lumber P*
1611 **PACIFIC COAST SUPPLY**...*Paper Products*
1611 **ROGELIO AUTO REPAIR-AUTO ELEC**...*Electr*
1611 **U-HAUL NEIGHBORHOOD DEALER**...*Truck Ren*
1611 **UNITY AUTO BODY REPAIR**...*Automobile Bo*
1633 **PACIFIC COAST SUPPLY**...*Cash Registers*
1635 **TRANSMASTERS TRANSMISSION**...*Transmissi*
1635 **TRANSMASTERS TRANSMISSION**...*Automobile*
1647 **5 STARZ**...*Automobile Electric Service<*

2018
SOURCE: DIGITAL BUSINESS DIRECTORY
SAN BERNARDINO ROAD

Part 3 of 3

1647 **ABLE AUTO ELECTRIC**...*Automobile Electr*
1647 **ABLE AUTO ELECTRIC**...*Trucks-industrial*
1656 **EARL SCHEIB OF COVINA**...*Automobile Pai*
1656 **EARL SCHEIB-COVINA**...*Automobile Body-r*
1661 **PIZZA HUT**...*Foodscarry Out*
1661 **PIZZA HUT**...*Restaurants*
1661 **PIZZA HUT**...*Pizza*
1661 **PIZZA HUT**...*Hotels & Motels*
1663 **CHANEL NAIL SPA**...*Nail Salons*
1665 **PARS SPIRITS UNLIMITED INC**...*Beer & Al*
1665 **PARS SPIRITS UNLIMITED INC**...*Liquors-r*
1680 **AMPM**...*Convenience Stores*
1680 **ARCO**...*Service Stations-gasoline & Oil*
1680 **ARCO**...*Oil & Gas Producers*
1680 **ARCO**...*Alternative Fuels*
1680 **J B C SMOG**...*Other Automotive Mechanic*
1681 **BURGER KING**...*Cafes*
1681 **BURGER KING**...*Foods-carry Out<*

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

1039 **CORDOVA ASSOC INC**...*Offices Of Real E*
1039 **CORDOVA & ASSOC INC**...*Federal Governme*
1041 **ALL-WAYS FAST WATER DAMAGE**...*Residenti*
1041 **COMMUNITY BANK**...*Banks*
1041 **COMMUNITY BANK**...*Telemarketing Bureaus*
1041 **EM CARE**...*Voluntary Health Organizatio*
1041 **EM CARE**...*Emergency Medical & Surgical*
1041 **HAMILTON, STEVEN J**...*Offices Of Lawyer*
1041 **RGIS INVENTORY SPECIALISTS**...*All Other*
1065 **RADIOSHACK**...*Radio, Tv & Other Electro*
1065 **RADIOSHACK**...*Cellular Telephones-equip*
1065 **RADIOSHACK**...*Computer & Equipment Deal*
1065 **RADIOSHACK**...*Data Processing Equipment*
1067 **BRIDGE CHURCH**...*Religious Organization*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Other*
1100 **QUICKSAND**...*All Other Specialty Trade*
1103 **LITTLE SCHOLARS PRESCHOOL**...*Child Day*
1111 **UNITY CHURCH OF THE FOOTHILLS**...*Religi*
1211 **JUBILEE CHRISTIAN PRESCHOOL**...*Elementa*
1211 **MR DRAIN PLBG OF WEST COVINA**...*Applian*
1271 **CHURCH OF JESUS CHRIST OF LDS**...*Religi*
1308 **COMBUSTION LAB**...*Research & Developmen*
1360 **BUSINESS EXPANSION ENTERPRISES**...*Proce*
1360 **KNIGHT RESEARCH INC**...*Process & Logist*
1360 **MISSION BLADE INC**...*Process & Logistic*
1417 **WESTERN PAVING**...*Highway, Street, & Br*
1437 **CHURCH OF THE NAZARENE**...*Religious Org*
1437 **ST JUDE MISSION**...*Religious Organizati*

119 total records. *Part 1 of 3*
1009 **OWL WESTRN PHARMACY**...*RESEARCH &*
1017 **PIONEER DOOR**...*OTHER BUILDING MAT*
1025 **TEA HEALTHCARE SVC INC**...*HOME HEA*
1035 **LEWIS ENGRAVING NOVELTIES**...*STOR*
1035 **LEWIS ENGRAVING & NOVELTIES**...*BAD*
1035 **LEWIS ENGRAVING & NOVELTIES**...*ADV*
1035 **LEWIS ENGRAVING & NOVELTIES**...*COM*
1039 **LOS ALAZANES MEXICAN FOOD**...*FULL-*
1055 **CATANO ENTERPRISES INC**...*INSURANC*
1055 **CATANO INSURANCE**...*INSURANCE AGEN*
1060 **BRUNSWICK COVINA BOWLING LANES**...
1060 **KING PIN PRO SHOP**...*BOWLING CENTE*
1062 **HAIR EM BEAUTY SALON**...*BEAUTY SAL*
1069 **TOWN SENT**...*FULL-SERVICE RESTAURA*
1109 **BIOTECH MEDICAL**...*OTHER ACCOUNTIN*
1109 **CONSOLIDATED STAFFING SOLUTION**...
1109 **CONSOLIDATED STAFFING SOLUTION**...
1109 **LUCY SALAZAR ASSOC**...*TAX PREPARA*
1109 **MOUTON S CREOLE CAJUN SPICE**...*ALL*
1109 **SURE CARE HEALTH SVC**...*HOME HEALT*
1118 **LOS FAROLES MEXICAN GRILL**...*FULL-*
1130 **COVINA BONITA APARTMENTS**...*LESSOR*
1131 **FERNANDEZ FAMILY DENTISTRY**...*OFFI*
1131 **FERNANDEZ REYNALDO D DDS**...*OFFIC*
1131 **FERNANDEZ TERESITA C DDS**...*OFFIC*
1139 **MERCURY TERMITE PEST CONTROL**...*E*
1145 **SAMPSON INSURANCE SVC**...*INSURANCE*
1170 **REMM GROUP**...*LESSORS OF RESIDENTI*
1171 **AARON P SHARMA ASSOC INC**...*OTHER*
1171 **AMERICAN PROFESSIONAL SVC**...*INSUR*
1171 **BALCAZAR LETICIA D**...*OFFICES OF*
1171 **GERSTENBERG GROUP**...*INVESTIGATION*
1171 **HI TECH CAR RENTAL**...*WRECKER SERV*
1171 **PAEZ PATROL SECURITY INC**...*SECURI*
1171 **US FLEET DISPOSAL**...*INDUSTRIAL PA*
1205 **JOHNSON ROY A CPA**...*OFFICES OF C*
1217 **EXPRESS LOANS INVESTMENTS**...*CONS*
1217 **METRO CITY INC**...*OFFICES OF REAL*
1220 **OLIVE TREE APARTMENTS**...*LESSORS O*
1229 **CES HOME IMPROVEMENT**...*RESIDENTIA*
1247 **KID ZONE CHILDREN CTR**...*ELEMENTAR*
1250 **LARK APARTMENTS**...*LESSORS OF RESI*
1255 **ORTHOPAEDIC REHAB CTR**...*ALL OTHER*
1257 **DEMERJIAN JIAN H DPM**...*OFFICES O*
1257 **DEMIRJIAN HRATCH DPM**...*OFFICES O*
1257 **FOOT ANKLE CTR**...*OFFICES OF PHYS*
1257 **HARA PODIATRISTS GROUP INC**...*OFF*
1259 **QUEST DIAGNOSTICS**...*MEDICAL LABOR*
1267 **HARA PODIATRISTS GROUP INC**...*OFFI*
1274 **SPOT FREE CAR WASH**...*SERVICE ESTA*
1275 **7-ELEVEN**...*CONVENIENCE STORES*
1275 **7-ELEVEN**...*GROCERS-RETAIL*
1275 **7-ELEVEN**...*FOOD MARKETS*

Part 2 of 3

1275 **CITIBANK ATM**...*Commercial Banking*
1343 **COVINA PALMS APARTMENTS**...*Lessors Of R*
1350 **LA ELLEN VILLAGE MAIN OFFICE**...*Lessors*
1350 **LARK ELLEN VILLAGE MAIN OFFICE**...*Lesso*
1375 **MOUNTAIN VIEW VENTURE**...*Lessors Of Res*
1375 **SPHINX LANDSCAPING**...*Landscaping Svcs<*
1513 **SERRANO APARTMENTS**...*Lessors Of Reside*
1530 **LISA'S COFFEE SHOP**...*Full-service Rest*
1545 **BRIDGES INC**...*Other Individual & Famil*
1554 **BUD'S MUFFLER SHOP**...*Automotive Exhaus*
1554 **U-HAUL NEIGHBORHOOD DEALER**...*Truck Tr*
1554 **U-HAUL NEIGHBORHOOD DEALER**...*Trailer R*
1566 **COVINA SCREEN PATIO CO**...*Other Buildi*
1566 **COVINA SCREEN & PATIO CO**...*Hardware-re*
1566 **COVINA SCREEN & PATIO CO**...*Awnings & C*
1566 **COVINA SCREEN & PATIO CO**...*Patio & Dec*
1574 **POLLY TRADING CO INC**...*All Other Durab*
1576 **DISCOTECA MEXICO INCOME TAX**...*Gift No*
1576 **JACOB'S PARADISE INC**...*Other Nondurabl*
1578 **AJAX SIGN GRAPHICS INC**...*Wholesale Tra*
1578 **COVINA SIGN ENTERPRISE**...*Sign Mfg*
1578 **HOUSE OF METAL ENGINEERING INC**...*Air C*
1578 **HOUSE OF METAL ENGINEERING INC**...*Plumb*
1578 **METALS RECOVERY CO INC**...*Jewelry Store*
1578 **SERVPRO OF WEST COVINA**...*Carpet & Rug*
1578 **SERVPRO OF WEST COVINA**...*Mold Mildew M*
1578 **SERVPRO OF WEST COVINA**...*Water Damage*
1578 **SERVPRO OF WEST COVINA**...*Residential R*
1578 **SMART BEAN INC**...*Toy & Hobby Goods Mer*
1578 **SOAPERMAN**...*Nonclassified Establishmen*
1578 **UNIVERSAL AZTECA II**...*Other Svcs Relat*
1580 **ACTION MAINTENANCE**...*Federal Governmen*
1580 **ACTION MAINTENANCE**...*Janitorial Svcs*
1580 **ARIES ACTION MAINTENANCE**...*Janitorial*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Die Mak*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Metal G*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Electri*
1580 **FRAIJO BROTHER INC**...*Engineering Svcs<*
1580 **G M PRECISION**...*Machine Shops*
1580 **G & M PRECISION**...*Tool & Die Makers (m*
1580 **G & M PRECISION**...*Dies (mfrs)<*
1580 **G & M PRECISION**...*Jigs & Fixtures (mfr*
1580 **PRIOM INC**...*Medical Equip Merchant Who*
1580 **PRIOM INC**...*Medical Equipment-repairin*
1600 **DROP YOUR JEANS OFF INC**...*Men's Work C*
1600 **DROP YOUR JEANS OFF INC**...*Clothing-who*
1600 **DROP YOUR JEANS OFF INC**...*Clothing-ret*
1611 **C M L NURSING SVC GROUP INC**...*Offices*
1611 **NINE K RACING LLC**...*Nonclassified Esta*
1611 **PACIFIC COAST SUPPLY**...*Office Machiner*
1611 **PACIFIC COAST SUPPLY**...*Paper Products*
1611 **UNITY AUTO BODY REPAIR**...*Automotive Bo*

2014
SOURCE: DIGITAL BUSINESS DIRECTORY
SAN BERNARDINO ROAD

Part 3 of 3

1635 **TRANSMASTERS TRANSMISSION**...*Automotive*
1647 **5 STARZ**...*Other Automotive Mechanical*
1647 **ABLE AUTO ELECTRIC**...*Automobile Electr*
1647 **ABLE AUTO ELECTRIC**...*Commercial Machin*
1647 **KIKO'S AUTO REPAIR**...*General Automotiv*
1656 **EARL SCHEIB OF COVINA**...*Automobile Pai*
1661 **PIZZA HUT**...*Restaurants*
1661 **PIZZA HUT**...*Foods-carry Out*
1661 **PIZZA HUT**...*Full-service Restaurants*
1665 **PARS SPIRITS UNLIMITED INC**...*Beer, Win*
1680 **ARCO**...*Other Gasoline Stations*
1680 **ARCO**...*Alternative Fuels*
1681 **BURGER KING**...*Full-service Restaurants*
1681 **BURGER KING**...*Foods-carry Out<*

1041 **EM CARE**...*Voluntary Health Organizatio*
1041 **GUNTUPALLI, NAGESWARA R MD**...*Offices O*
1041 **HAMILTON, STEVEN J**...*Offices Of Lawyer*
1041 **KOH, JOSHUA MD**...*Offices Of Physicians*
1041 **RGIS INVENTORY SPECIALISTS**...*All Other*
1061 **SAN GABRIEL VALLEY USBC**...*Bowling Cent*
1065 **RADIO SHACK**...*Radio, Tv & Other Electr*
1067 **BRIDGE CHURCH**...*Religious Organization*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Other*
1103 **BEVLI MONTESSORI SCHOOL**...*Child Day Ca*
1111 **DIAL-A-PRAYER UNITY CHURCH**...*Religious*
1111 **UNITY CHURCH OF THE FOOTHILLS**...*Religi*
1211 **FAITH COMMUNITY CHURCH**...*Religious Org*
1211 **JUBILEE CHRISTIAN PRESCHOOL**...*Child Da*
1211 **LIVING WATERS**...*Religious Organization*
1360 **KNIGHT RESEARCH INC**...*Process & Logist*
1437 **NAZARENE CHURCH OF WEST COVINA**...*Relig*
1437 **PRAISE CHRISTIAN FELLOWSHIP**...*Religiou*

88 total records. *Part 1 of 2*
1017 **PIONEER DOOR INC**...*OTHER BUILDING*
1025 **PRIME HOME LOANS**...*OFFICES OF REA*
1035 **LEWIS ENGRAVING & NOVELTIES**...*MET*
1055 **AHORRA MAS**...*ALL OTHER GENERAL ME*
1055 **CATANO INSURANCE**...*INSURANCE AGEN*
1055 **ECONOMICAL INSURANCE SVC**...*INSURA*
1060 **BRUNSWICK COVINA BOWL**...*BOWLING C*
1060 **KING PIN PRO SHOP**...*BOWLING CENTE*
1062 **HAIR EM BEAUTY SALON**...*BEAUTY SAL*
1069 **TOWN SENT SEAFOOD RESTAURANT**...*FU*
1109 **A M TRAVEL SVC**...*TRAVEL AGENCIES<*
1109 **BIOTECH MEDICAL**...*OTHER ACCOUNTIN*
1109 **CASAS SEAFOOD INC**...*FISH & SEAFOO*
1109 **FAMILY CARPET CARE**...*CARPET & UPH*
1109 **INSIDERS**...*OFFICES OF LAWYERS*
1109 **LUCY SALAZAR TAX SVC**...*TAX PREPAR*
1109 **MIS INSURANCE SVC**...*INSURANCE AGE*
1109 **MOUTONS CREOLE CAJUN SPICE**...*ALL*
1109 **PACIFIC CC ENTERPRISES CO**...*OFFIC*
1109 **PLATIUM CAPITAL GROUP**...*REAL ESTA*
1109 **SAFETY PRO INC**...*HUMAN RESOURCE C*
1109 **SURE CARE HEALTH SVC**...*HOME HEALT*
1109 **T M PROFESSIONALS**...*INSURANCE AGE*
1118 **LOS FAROLES MEXICAN GRILL**...*FULL-*
1130 **BELLA INVITATIONS**...*GIFT NOVELTY*
1130 **COVINA BONITA APARTMENTS**...*LESSOR*
1131 **FERNANDEZ FAMILY DENTISTRY**...*OFFI*
1131 **FERNANDEZ REYNALDO D DDS**...*OFFIC*
1131 **MSS NURSES REGISTRY INC**...*OFFICES*
1139 **MERCURY TERMITE & PEST CONTROL**...
1151 **BYER REAL ESTATE SVC**...*OFFICES OF*
1170 **REMM GROUP**...*LESSORS OF RESIDENTI*
1171 **AARON P SHARMA & ASSOC INC**...*OTHE*
1171 **BLUE CROSS & BLUE SHIELD**...*INSURA*
1171 **GERSTENBERG GROUP**...*INVESTIGATION*
1171 **PAEZ PATROL SECURITY INC**...*SECURI*
1171 **PREPAID COMMUNICATIONS**...*ALL OTHE*
1171 **QUALITY MEDICAL PROFESSIONAL**...*HU*
1205 **JOHNSON ROY A CPA**...*OFFICES OF C*
1217 **EXPRESS LOANS & INVESTMENTS**...*REA*
1217 **HARIK CONSTRUCTION**...*COMMERCIAL B*
1217 **METRO CITY**...*REAL ESTATE CREDIT*
1220 **OLIVE TREE APARTMENTS**...*LESSORS O*
1229 **CES HOME IMPROVEMENT**...*RESIDENTIA*
1247 **KID ZONE CHILDREN CTR**...*ELEMENTAR*
1250 **LARK APARTMENTS**...*LESSORS OF RESI*
1255 **ORTHOPAEDIC REHAB CTR**...*STORE RET*
1257 **DEMERJIAN JIAN H DPM**...*OFFICES O*
1259 **C P ACUPUNCTURE HEALTH CTR**...*OFFI*
1269 **LAUNDROMAT**...*COIN-OPERATED LAUNDR*
1274 **SPOT FREE CAR WASH**...*SERVICE ESTA*
1275 **7-ELEVEN**...*CONVENIENCE STORES*
1343 **COVINA PALMS APARTMENTS**...*LESSORS*

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

2010
SOURCE: DIGITAL BUSINESS DIRECTORY

SAN BERNARDINO ROAD

Part 2 of 2

1350 **LARK ELLEN VILLAGE APTS**...*Lessors Of R*
1375 **MOUNTAIN VIEW VENTURE**...*Lessors Of Res*
1423 **K L GOLDSTAR CORP**...*All Other Misc Tex*
1513 **SERRANO APARTMENTS**...*Lessors Of Reside*
1530 **LISAS COFFEE SHOP**...*Full-service Resta*
1554 **BUDS MUFFLER SHOP**...*General Automotive*
1566 **COVINA SCREEN & PATIO CO**...*Other Build*
1568 **BAYSIDE MERCHANDISING DSTRBTN**...*Other*
1570 **COVINA INDUSTRIAL PARK**...*Offices Of Re*
1572 **AMERICAN TECHNOLOGY MATERIAL**...*Other S*
1576 **ALEGRIA PARTY RENTALS**...*All Other Cons*
1576 **DISCOTECA MEXICO INCOME TAX**...*Tax Prep*
1578 **AJAX SIGN GRAPHICS INC**...*Sign Mfg*
1578 **COVINA SIGN ENTERPRISE**...*Sign Mfg*
1578 **HOUSE OF METAL ENGINEERING INC**...*Plumb*
1578 **METALS RECOVERY CO INC**...*Jewelry Store*
1578 **SMART BEAN INC**...*Toy & Hobby Goods Mer*
1580 **ACTION MAINTENANCE**...*Janitorial Svcs*
1580 **CERTIFIED MOBILE AUTO GLASS**...*Other Bu*
1580 **D V PRINTING**...*Commercial Lithographic*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Electri*
1580 **G & M PRECISION**...*Machine Shops*
1580 **RPS POOL & SPA**...*Commercial Building C*
1611 **B P AIR**...*Plumbing & Hvac Contrs*
1611 **MAXXON CO**...*All Other Durable Goods Me*
1611 **TAP CORP**...*Commercial Building Constru*
1611 **UNITY AUTO BODY REPAIR**...*Automotive Bo*
1623 **PICKS BUILDING MATERIAL INC**...*Other Bu*
1641 **SOCIETY CLEANERS**...*Drycleaning & Laund*
1647 **ABLE AUTO ELECTRIC**...*Other Automotive*
1647 **L & F AUTO**...*All Other Automotive Repa*
1656 **EARL SCHEIB PAINT & BODY**...*Automotive*
1661 **PIZZA HUT**...*Full-service Restaurants*
1665 **JOHNNYS LIQUOR DELI & VIDEO**...*Beer, Wi*
1681 **BURGER KING**...*Full-service Restaurants*

2006
SOURCE: DIGITAL BUSINESS DIRECTORY

BADILLO STREET

1041 **EM CARE**...*Voluntary Health Organizatio*
1041 **GUNTUPALLI, NAGESWARA R MD**...*Offices O*
1041 **HAMILTON, STEVEN J**...*Offices Of Lawyer*
1041 **KOH, JOSHUA MD**...*Offices Of Physicians*
1041 **RGIS INVENTORY SPECIALISTS**...*All Other*
1061 **SAN GABRIEL VALLEY USBC**...*Bowling Cent*
1065 **RADIO SHACK**...*Radio, Tv & Other Electr*
1067 **BRIDGE CHURCH**...*Religious Organization*
1085 **NUEVO AMANECER LATINO CHILDREN**...*Other*
1103 **BEVLI MONTESSORI SCHOOL**...*Child Day Ca*
1111 **DIAL-A-PRAYER UNITY CHURCH**...*Religious*
1111 **UNITY CHURCH OF THE FOOTHILLS**...*Religi*
1211 **FAITH COMMUNITY CHURCH**...*Religious Org*
1211 **JUBILEE CHRISTIAN PRESCHOOL**...*Child Da*
1211 **LIVING WATERS**...*Religious Organization*
1360 **KNIGHT RESEARCH INC**...*Process & Logist*
1437 **NAZARENE CHURCH OF WEST COVINA**...*Relig*
1437 **PRAISE CHRISTIAN FELLOWSHIP**...*Religiou*

88 total records. *Part 1 of 2*

1017 **PIONEER DOOR INC**...*OTHER BUILDING*
1025 **PRIME HOME LOANS**...*OFFICES OF REA*
1035 **LEWIS ENGRAVING & NOVELTIES**...*MET*
1055 **AHORRA MAS**...*ALL OTHER GENERAL ME*
1055 **CATANO INSURANCE**...*INSURANCE AGEN*
1055 **ECONOMICAL INSURANCE SVC**...*INSURA*
1060 **BRUNSWICK COVINA BOWL**...*BOWLING C*
1060 **KING PIN PRO SHOP**...*BOWLING CENTE*
1062 **HAIR EM BEAUTY SALON**...*BEAUTY SAL*
1069 **TOWN SENT SEAFOOD RESTAURANT**...*FU*
1109 **A M TRAVEL SVC**...*TRAVEL AGENCIES<*
1109 **BIOTECH MEDICAL**...*OTHER ACCOUNTIN*
1109 **CASAS SEAFOOD INC**...*FISH & SEAFOO*
1109 **FAMILY CARPET CARE**...*CARPET & UPH*
1109 **INSIDERS**...*OFFICES OF LAWYERS*
1109 **LUCY SALAZAR TAX SVC**...*TAX PREPAR*
1109 **MIS INSURANCE SVC**...*INSURANCE AGE*
1109 **MOUTONS CREOLE CAJUN SPICE**...*ALL*
1109 **PACIFIC CC ENTERPRISES CO**...*OFFIC*
1109 **PLATIUM CAPITAL GROUP**...*REAL ESTA*
1109 **SAFETY PRO INC**...*HUMAN RESOURCE C*
1109 **SURE CARE HEALTH SVC**...*HOME HEALT*
1109 **T M PROFESSIONALS**...*INSURANCE AGE*
1118 **LOS FAROLES MEXICAN GRILL**...*FULL-*
1130 **BELLA INVITATIONS**...*GIFT NOVELTY*
1130 **COVINA BONITA APARTMENTS**...*LESSOR*
1131 **FERNANDEZ FAMILY DENTISTRY**...*OFFI*
1131 **FERNANDEZ REYNALDO D DDS**...*OFFIC*
1131 **MSS NURSES REGISTRY INC**...*OFFICES*
1139 **MERCURY TERMITE & PEST CONTROL**...
1151 **BYER REAL ESTATE SVC**...*OFFICES OF*
1170 **REMM GROUP**...*LESSORS OF RESIDENTI*
1171 **AARON P SHARMA & ASSOC INC**...*OTHE*
1171 **BLUE CROSS & BLUE SHIELD**...*INSURA*
1171 **GERSTENBERG GROUP**...*INVESTIGATION*
1171 **PAEZ PATROL SECURITY INC**...*SECURI*
1171 **PREPAID COMMUNICATIONS**...*ALL OTHE*
1171 **QUALITY MEDICAL PROFESSIONAL**...*HU*
1205 **JOHNSON ROY A CPA**...*OFFICES OF C*
1217 **EXPRESS LOANS & INVESTMENTS**...*REA*
1217 **HARIK CONSTRUCTION**...*COMMERCIAL B*
1217 **METRO CITY**...*REAL ESTATE CREDIT*
1220 **OLIVE TREE APARTMENTS**...*LESSORS O*
1229 **CES HOME IMPROVEMENT**...*RESIDENTIA*
1247 **KID ZONE CHILDREN CTR**...*ELEMENTAR*
1250 **LARK APARTMENTS**...*LESSORS OF RESI*
1255 **ORTHOPAEDIC REHAB CTR**...*STORE RET*
1257 **DEMERJIAN JIAN H DPM**...*OFFICES O*
1259 **C P ACUPUNCTURE HEALTH CTR**...*OFFI*
1269 **LAUNDROMAT**...*COIN-OPERATED LAUNDR*
1274 **SPOT FREE CAR WASH**...*SERVICE ESTA*
1275 **7-ELEVEN**...*CONVENIENCE STORES*
1343 **COVINA PALMS APARTMENTS**...*LESSORS*

2006
SOURCE: DIGITAL BUSINESS DIRECTORY
SAN BERNARDINO ROAD

Part 2 of 2

1350 **LARK ELLEN VILLAGE APTS**...*Lessors Of R*
1375 **MOUNTAIN VIEW VENTURE**...*Lessors Of Res*
1423 **K L GOLDSTAR CORP**...*All Other Misc Tex*
1513 **SERRANO APARTMENTS**...*Lessors Of Reside*
1530 **LISAS COFFEE SHOP**...*Full-service Resta*
1554 **BUDS MUFFLER SHOP**...*General Automotive*
1566 **COVINA SCREEN & PATIO CO**...*Other Build*
1568 **BAYSIDE MERCHANDISING DSTRBTN**...*Other*
1570 **COVINA INDUSTRIAL PARK**...*Offices Of Re*
1572 **AMERICAN TECHNOLOGY MATERIAL**...*Other S*
1576 **ALEGRIA PARTY RENTALS**...*All Other Cons*
1576 **DISCOTECA MEXICO INCOME TAX**...*Tax Prep*
1578 **AJAX SIGN GRAPHICS INC**...*Sign Mfg*
1578 **COVINA SIGN ENTERPRISE**...*Sign Mfg*
1578 **HOUSE OF METAL ENGINEERING INC**...*Plumb*
1578 **METALS RECOVERY CO INC**...*Jewelry Store*
1578 **SMART BEAN INC**...*Toy & Hobby Goods Mer*
1580 **ACTION MAINTENANCE**...*Janitorial Svcs*
1580 **CERTIFIED MOBILE AUTO GLASS**...*Other Bu*
1580 **D V PRINTING**...*Commercial Lithographic*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Electri*
1580 **G & M PRECISION**...*Machine Shops*
1580 **RPS POOL & SPA**...*Commercial Building C*
1611 **B P AIR**...*Plumbing & Hvac Contrs*
1611 **MAXXON CO**...*All Other Durable Goods Me*
1611 **TAP CORP**...*Commercial Building Constru*
1611 **UNITY AUTO BODY REPAIR**...*Automotive Bo*
1623 **PICKS BUILDING MATERIAL INC**...*Other Bu*
1641 **SOCIETY CLEANERS**...*Drycleaning & Laund*
1647 **ABLE AUTO ELECTRIC**...*Other Automotive*
1647 **L & F AUTO**...*All Other Automotive Repa*
1656 **EARL SCHEIB PAINT & BODY**...*Automotive*
1661 **PIZZA HUT**...*Full-service Restaurants*
1665 **JOHNNYS LIQUOR DELI & VIDEO**...*Beer, Wi*
1681 **BURGER KING**...*Full-service Restaurants*

1041 **AMERICAN NATIONAL INSURANCE CO**...
1041 **APPLEBAUM GEORGE R CPA**...*Auditing Serv*
1041 **BENSON JACK**...
1041 **CLEM SUSAN ATTY**...
1041 **COPELAND PENNY**...
1041 **COUCH DAVID W CPA**...*Auditing Services<*
1041 **COVINA PSYCHOLOGICAL SVC**...
1041 **DUNCAN DALE E CPA**...*Auditing Services<*
1041 **EM CARE OF CALIFORNIA**...*Internal Medic*
1041 **GEORGE HOREJSI CORP**...*Auditing Service*
1041 **GUNTUPALLI N R MD**...*Internal Medicine*
1041 **HAMILTON STEVEN J ATTY**...
1041 **HARPER RICK**...*Geriatric Social Service*
1041 **RELY STAFF**...
1041 **RODENBERG FRANCES PHD**...
1041 **ROGERS CLEM & CO**...*Auditing Services*
1041 **ROGERS OWEN D CPA**...*Auditing Services<*
1061 **SAN GABRIEL VALLEY WOMEN'S**...<
1065 **RADIO SHACK**...
1067 **NAK YOUNG CHURCH OF ELA**...
1069 **SAN GABRIEL VALLEY MEN'S BWLNG**...*Growe*
1085 **NUEVO AMANECER LATINO CHILDREN**...
1103 **BEVLI MONTESSORI SCHOOLS**...*Public Elem*
1111 **DIAL-A-PRAYER UNITY CHURCH**...<
1111 **UNITY CHURCH OF THE FOOTHILLS**...
1163 **ANNE'S CAREGIVING SVCS**...
1211 **FAITH COMMUNITY CHURCH**...
1271 **CHURCH OF JESUS CHRIST OF LDS**...
1437 **CHARISMA CHRISTIAN CTR**...
1437 **CHURCH OF THE NAZARENE**...

106 total records. *Part 1 of 3*
1009 **PIONEER DOOR INC**...*LUMBER PRODUCT*
1010 **BED OUTLET**...
1010 **CARPET KING**...
1011 **RICK PETERSON MOTOR SPORTS**...
1017 **AVIATION COMMUNICATIONS**...
1017 **DONG SUNG COMMUNICATIONS USA**...
1035 **LEWIS ENGRAVING & NOVELTIES**...*GRA*
1039 **DEL TACO**...*STEAK AND BARBECUE RES*
1055 **FIRST NATIONAL PROCESSING**...
1055 **NOVA SYSTEMS**...
1055 **SUNRISE ENTERPRISES**...
1060 **BRUNSWICK COVINA BOWL**...<
1060 **KING PIN PRO SHOP**...
1062 **HAIR EM BEAUTY SALON**...
1069 **TOWN SENT SEAFOOD RESTAURANT**...*ST*
1108 **JOHN MITCHELL ASPHALT**...*HIGHWAY S*
1109 **ASSOCIATED FOREIGN EXCHANGE**...
1109 **CAL TECH SOLUTIONS**...
1109 **CONSUMER CREDIT CTR**...
1109 **LUCY SALAZAR TAX SVC**...
1109 **MOUTON S CREOLE CAJUN SPICE**...*BEV*
1109 **NICHOLS LEGAL SVC**...
1109 **OPTIMAL HOME CARE INC**...<
1109 **RATHER JAMES ATTY**...
1109 **SURE CARE HEALTH SVC**...
1109 **T M PROFESSIONALS**...
1109 **TRUSPER INTERNATIONAL TRADING**...*V*
1118 **LUCKY CHINA RESTAURANT**...*STEAK AN*
1130 **COVINA BONITA APARTMENTS**...
1131 **FERNANDEZ REYNALDO D DDS**...*SPECIA*
1145 **STATE FARM INSURANCE**...
1170 **REMM GROUP**...
1171 **AARON P SHARMA & ASSOC INC**...*ACCO*
1171 **AMERICAN PROFESSIONAL SVC**...
1171 **ELITE TECHNOLOGIES INC**...*COMPUTER*
1171 **GERSTENBERG GROUP**...
1171 **HI-TECH AUTO CTR**...*AUTOMOTIVE MAI*
1171 **HI-TECH CAR RENTAL**...
1171 **HI-TECH TOWING**...*AUTOMOTIVE MAINT*
1171 **L M ASSOCIATED SVC**...
1171 **R E BIRD GROUP**...
1171 **TANG FENG INTL TRADE INC**...*FIREAR*
1171 **TRI-CITY AUTO REGISTRATION SVC**...
1200 **FAITH COMMUNITY CHURCH**...
1200 **LIVING WATERS**...
1205 **JOHNSON ROY A CPA**...*AUDITING SERV*
1217 **EXPRESS LOANS & INVESTMENTS**...
1217 **HARIK CONSTRUCTION**...
1217 **METRO CITY INC**...
1220 **OLIVE TREE APARTMENTS**...<
1229 **CES PAINTING & COATING**...*RESIDENT*
1247 **SHINING STARS CHILDRENS**...
1255 **ORTHOPAEDIC REHAB CTR**...<

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

Part 2 of 3

1257 **DEMERJIAN H DPM**...
1257 **E CLAIMS INC**...
1257 **FOOT & ANKLE CTR**...*Psychiatrists And P*
1257 **HARA PODIATRISTS GROUP INC**...*Psychiatr*
1274 **ELLEN LARK SHELL**...
1275 **7-ELEVEN FOOD STORE**...*Supermarkets*
1343 **COVINA PALMS APARTMENTS**...
1375 **MOUNTAIN VIEW VENTURE**...
1413 **SUM ENTERPRISES INC**...
1513 **WEST COVINA APARTMENTS**...
1530 **LISA'S COFFEE SHOP**...*Steak And Barbecu*
1540 **ACADEMY SIGNS**...
1550 **JOANN'S KITCHEN**...*Pizza Restaurants*
1554 **BUD'S MUFFLER SHOP**...*Engine Repair*
1566 **COVINA SCREEN & PATIO CO**...*Single-fami*
1570 **COVINA INDUSTRIAL PARK**...
1574 **DROP YOUR JEANS OFF**...*Office Furniture*
1578 **AJAX SIGN GRAPHICS INC**...
1578 **COVINA SIGN ENTERPRISE**...
1578 **DEL SOL EDUCATIONAL**...
1578 **FLOOR SHOW**...
1578 **HOUSE OF METAL ENGINEERING INC**...*Sprin*
1578 **METALS RECOVERY CO**...
1580 **ACTION MAINTENANCE**...*Building Componen*
1580 **ADAN CONSTRUCTION INC**...
1580 **ARIES MAINTENANCE CO**...*Building Compon*
1580 **D V PRINTING**...*Promotional Printing, L*
1580 **DIAMOND EDM WIRE CUTTING INC**...*Jigs An*
1580 **EAGLE SWEEPING CO**...*Disease Control*
1580 **FUTURE PACKAGING**...*Art Gallery*
1580 **G & M PRECISION**...*Machine And Other Jo*
1580 **GCA INTL INC**...*Posters And Decals*
1580 **JACOB'S PARADISE**...*Oil And Greases (an*
1580 **LIONIZE DESIGNS**...*Memorandum Books No*
1580 **WISDOM**...*Video And Audio Equipment*
1600 **WEBER-MILLBROOK BAKERY**...*Pet Foods*
1611 **ACE AUTOMOTIVE DIAGNOSTIC**...*Engine Rep*
1611 **BLACKARD'S TOWING INC**...*Automotive Mai*
1611 **MAXXON CO**...*Infant Furnishings And Equ*
1611 **TAP CORP**...
1611 **UNITY AUTO BODY REPAIR**...*Interior Repa*
1623 **PICK'S BUILDING MATERIAL INC**...
1633 **PORT JERSEY SHIPPING IND**...*Firearms An*
1633 **PORT JERSEY SHIPPING IND**...*Firearms An*
1635 **BEST BUY TIRES**...
1637 **QUICK STOP**...
1641 **SOCIETY CLEANERS**...*Laundry And Dryclea*
1643 **ALTA-DENA DAIRY**...
1647 **DAVID DEMING AUTO REPAIR**...*Engine Repa*
1656 **EARL SCHIEB PAINT & BODY**...*Interior Re*
1665 **JOHNNY'S LIQUOR DELI & VIDEO**...
1680 **VINCENT AUTOMOTIVE**...

2002
SOURCE: DIGITAL BUSINESS DIRECTORY
SAN BERNARDINO ROAD

Part 3 of 3

1681 **BURGER KING**...*Steak And Barbecue Resta*

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

1009	XXXX	00
1021	XXXX	00
1031	XXXX	00
1045	XXXX	00
1067	★YOUNG NAK CH OF ELA	339-6177
1103	SOLIS Lilia	858-9309 +
1109	DIAZ Luis	915-6482
	NEISLER Myrtle	339-3456
1117	CONTRERAS Gustavo	967-3056
	MARTINEZ J	332-8119 +
1125	XXXX	00
1127	XXXX	00
1131	XXXX	00
1137	XXXX	00
1141	MOTA Jose C	339-7865
1149	PALACIOS Lorena	331-5036 +4
1155	MENDEZ Martha C	966-2553 +4
1167	GALLEGOS Alfred	339-7813
1175	XXXX	00
1181	AVILES Luis	331-9550
	SMITH Retta	331-2777
1203	XXXX	00
1215	XXXX	00
1221	MEDINA Abel	915-2914 +4
1229	XXXX	00
1235	MEDRANO Daniel	332-2676
1243	XXXX	00
1247	ROMERO Elvia	966-4593
1255	BRYANT C	967-9208
1261	XXXX	00
1269	XXXX	00
1275	XXXX	00
1308	•ARMIJO Frank R	966-8244
1314	•INTISO L P	331-5039
1322	•KIM Chong H	00
1334	•TINGWALL Richard	00
1338	•JOLLEY Brannon	00
1356	•ROTH Sonia	00
1360	•CARPENTER C Anthony	331-9511
1370	•DOONAN Daniel	00
1375	XXXX	00
1380	•VIOLETT Louis	967-3261
1384	•QUIROGA Geo	339-1374
1450	XXXX	00
1460	XXXX	00
1480	XXXX	00
1504	•VITALE Thomas	00

1004	•TOLSON D Scott	966-1013
1014	XXXX	00
1032	XXXX	00
1041	BUILDING	
	★BENSON COLLEEN PHD	331-0071
	★BEST DALE CPA	967-7548 +4
	★BEST&HERRON CPAS	967-7548 +4
	★CLEM FLOYD C	858-5100
	★CLEM SUSAN ATTY	966-0020
	★CLEM SUSAN ATTY	331-0767 +4
	★COUCH DAVID WM	858-5100
	★COVINA PSYCHLGCL SV	331-0071
	★CULLEN DONALD B	858-5100
	★DUNCAN DALE E	858-5100 +4
	★EGAN VIRGINIA E CPA	967-5218
	★FREE JOHN C PHD	331-0071 +4
	★HERRON SUE CPA	967-7548 +4
	★MARROW&ASSOCIATES	966-1693
	★NAYLOR BETTY MFCC	331-0071 +4
	★NORRELL HEALTH CARE	967-9626
	★O M C INSURANCE AG	915-5145
	★O M C INSURANCE AG	967-7581
	★OCCIDENTAL MORTGAGE	967-7581
	★OCCIDENTAL MORTGAGE	331-0836
	★OWENBY DOUGLAS ATTY	966-5058
	★OWENBY RUTH ATTY	966-5058
	★RODENBURG F PHD	331-0071 +4
	★ROGERS CLEM&CO	626-4266
	★ROGERS CLEM&CO CORP	858-5100
	★ROGERS DONALD H	858-5100
	★TRANSAM FNCL SERVS	339-1261
	★ZABRISKIE C PHD	331-0071
1041		
1050	XXXX	00
1061	XXXX	00
1065	★RADIO SHACK	966-2270
1069	★SANGBRL VLY MN BWLG	858-9428
1082	XXXX	00
1085	★COM TEC GRAPHICS	331-0119 +4
1103	★BEVLI ACADEMY	332-3991
	★BEVLI ACADEMY	332-3881
	★COMPUTER&MONTESSORI	332-3991
	★MONTESSORI PRNCE SC	332-3881
	★MONTESSORI SC	332-3881
	★MONTESSORI&CMPTR SC	332-3991
	★PRINCE N PRINCESS	332-3881
1108	XXXX	00
1109	XXXX	00
1111	★DIAL A PRAYER CH	339-6520
	★UNITY CH OF FTHLLS	966-9002
1117	XXXX	00
1119	PEREZ Rutilo	966-6834
1121	XXXX	00
1123	PADILLA Antonio	858-0607
1127	GARCIA Evamarie	332-8495
	LOPEZ Dani	332-5409
1129	XXXX	00
1131	CEDAR RIDGE TWNHSES	
	DUFF B P	967-1934
	GORMAN John F	966-8874
	LESLIE S M	966-0344
1131		
1135	EDDY J	332-1940
	TODA Jim	858-0494
1139	OLINGER R Michael	339-5843
	RUMMER Michael	966-4919 +4
	RUMMER Rose	966-4919
1141	XXXX	00
1143	BORRA Paul	332-7090 +4
	FAIRES Jerry	966-8506
	JIMENEZ Gilbert	339-0058
	JIMENEZ Loree	339-0058
1147	XXXX	00
1151	FRANCIS G	331-6680
	GRAY Wm	331-2147 +4
	WHELAN R	967-0911
1155	XXXX	00
1163	APARTMENTS	
	ANDRE Jeremy	339-8003 +4
	BIGHINATTI Ben	966-2130
	BILODEAU Andrea	332-4398
	RUIZ G	332-8655
	RUIZ L	332-8655
	SANCHEZ Alberto	332-0030
1163		
1171	DELAVEGA Eduardo	966-6596 +4
1181	XXXX	00
1185	XXXX	00
1189	XXXX	00
1201	XXXX	00
1203	MARTINEZ Robt	967-4746
1204	•TENNEY Francis R	332-5603
1205	XXXX	00
1207	RICHMAN Pam	331-2867 +4
1211	HARDISON John	967-9136 +4
1216	XXXX	00
1223	XXXX	00
1227	XXXX	00
1228	•LEON Jose	967-9179
1229	XXXX	00
1231	XXXX	00
1233	•STILES Robt	331-5180
1237	XXXX	00
1243	•PAVEGLIO Gerald	339-9146
	•REALISTIC REALTY	966-6816
1250	XXXX	00
1260	AGUILERA Alicia	858-9081
1270	CADENA Richard H	331-0417
1271	•CHURCH JESUS CHRIST	332-7979
	•CHURCH JESUS CHRIST	332-3082
	227 BUS 137 RES	94 NEW

BADILLO W 91773
SAN DIMAS

WEALTH CODE 7

1406	XXXX	00
1408	STOWITTS Paul	592-8137
	STOWITTS Trina	592-8137
1414	FELDMAN Carolyn V	599-4122
	FELDMAN Myron R	599-4122
1418	PAIGE N L	599-6626

1422	XXXX	00	
1424	MAYER Constance	599-6194	8
1430	XXXX	00	
1432	ARBOGAST Thos	599-2815	
1436	XXXX	00	
1438	XXXX	00	
1441	XXXX	00	
1444	XXXX	00	
1450	KRAMER A M	394-0719	0
1452	XXXX	00	
1454	DITTERLINE Terri	592-3104	+4
	HANES Robt G	592-0428	9
1456	ETZEN David J	332-9577	
1458	WALTER R D	599-8764	
1460	SANTOGEANIS Paul	599-7734	2
1464	XXXX	00	
1466	XXXX	00	
1468	XXXX	00	
1476	SIXT Earl R	599-3136	
1478	XXXX	00	
1480	MORRIS Frankie	599-2590	
1482	GOGGINS David	599-6501	
1484	BARBAR Dale	599-5756	7
1486	XXXX	00	
1488	XXXX	00	
1603	XXXX	00	
1621	XXXX	00	

★ 0 BUS 33 RES 1 NEW

BADILLO W 91790
WEST COVINA

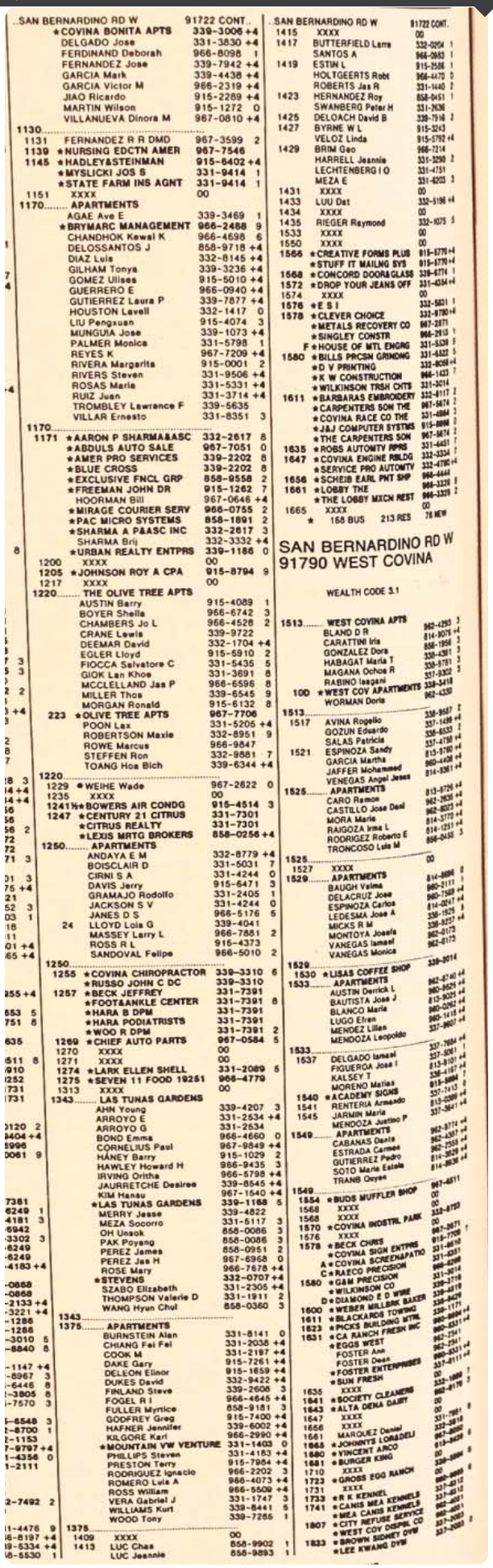
WEALTH CODE 3.1

1417	★WEST COV ASMBLY GOD	338-0419	8
1437	★CHURCH THE NAZARENE	962-2740	
	★NAZARENE CH W COV	962-2740	

999	XXXX	00	
1010	★BUILDERS EMPORIUM	331-7381	
1011	★COVINA YAMAHA	332-6249	1
	★KAWASAKI COVINA	967-4181	3
	★YAMAHA KAWASAKI	599-6942	
	★YAMAHA KAWASAKI	598-3302	3
	★YAMAHA KAWASAKI	332-6249	
	★YAMAHA OF COVINA	332-6249	
1017	★AVIATION COMMNCTNS	967-4183	+4
1019	XXXX	00	
1035	★STORTZ CARPET CLNG	331-0868	
	★STORTZ FLOOR CVRNGS	331-0868	
1039	★DEL TACO 328	332-2133	+4
1055	MAYERFELD Martin	915-3221	+4
1060	★BRUTOCO DVLPMNT CO	339-1286	
	★COVINA BOWL	339-1286	
1062	★ACCENT ON BEAUTY	331-3010	5
1069	★CHINA INN	339-8840	8
1108	CONTL GARDEN APTS		
	ALHALABI Naser	915-1147	+4
	ALVAREZ Miguel	332-8967	
	ANDERSON Michael	966-6446	
	★CONTL GARDEN APTS	332-3805	
	MONSANTE Luis	915-7570	
1108			
1109	★CAL ONE FINANCIAL	915-6548	
	★E Z FINANCIAL SERV	332-8700	
	★HEIMIN ENTERPRISES	332-1153	
	★PAC ENTERPRISES CO	967-9797	+
	★SANCHEZ LUCY TAX SV	331-4356	
	★TEACHERS TAX CO	331-2111	
1110	XXXX	00	
1112	XXXX	00	
1114	XXXX	00	
1118	★LUCKY CHINA RSTRNT	332-7492	
1123	XXXX	00	
1130	COVINA BONITA APTS		
	BANIM Vince	331-4476	
	BERI Vivek	966-8197	+
	CAMERA Stephen	339-5334	+
	CASTELLANOS Maria	858-5530	

1994-1995
SOURCE: HAINES

SAN BERNARDINO ROAD - B



..SAN BERNARDINO RD W 91722 CONT..

	★COVINA BONITA APTS	339-3006	+4
	DELGADO Jose	331-3830	+4
	FERDINAND Deborah	966-8098	1
	FERNANDEZ Jose	339-7942	+4
	GARCIA Mark	339-4438	+4
	GARCIA Victor M	966-2319	+4
	JIAO Ricardo	915-2289	+4
	MARTIN Wilson	915-1272	0
	VILLANUEVA Dinora M	967-0810	+4
1130			
1131	FERNANDEZ R R DMD	967-3599	2
1139	★NURSING EDCTN AMER	967-7546	
1145	★HADLEY&STEINMAN	915-6402	+4
	★MYSLICKI JOS S	331-9414	1
	★STATE FARM INS AGNT	331-9414	1
1151	XXXX	00	
1170	APARTMENTS		
	AGAE Ave E	339-3469	1
	★BRYMARC MANAGEMENT	966-2488	9
	CHANDHOK Kewal K	966-4698	6
	DELOSSANTOS J	858-9718	+4
	DIAZ Luis	332-8145	+4
	GILHAM Tonya	339-3236	+4
	GOMEZ Ulises	915-5010	+4
	GUERRERO E	966-0940	+4
	GUTIERREZ Laura P	339-7877	+4
	HOUSTON Lavell	332-1417	0
	LIU Pengxuan	915-4074	3
	MUNGUIA Jose	339-1073	+4
	PALMER Monica	331-5798	1
	REYES K	967-7209	+4
	RIVERA Margarita	915-0001	2
	RIVERS Steven	331-9506	+4
	ROSAS Maria	331-5331	+4
	RUIZ Juan	331-3714	+4
	TROMBLEY Lawrence F	339-5635	
	VILLAR Ernesto	331-8351	3
1170			
1171	★AARON P SHARMA&ASC	332-2617	8
	★ABDULS AUTO SALE	967-7051	0
	★AMER PRO SERVICES	339-2202	8
	★BLUE CROSS	339-2202	8
	★EXCLUSIVE FNCL GRP	858-9558	2
	★FREEMAN JOHN DR	915-1262	7
	HOORMAN Bill	967-0646	+4
	★MIRAGE COURIER SERV	966-0755	2
	★PAC MICRO SYSTEMS	858-1891	2
	★SHARMA A P&ASC INC	332-2617	3
	SHARMA Brij	332-3332	+4
	★URBAN REALTY ENTPRS	339-1186	0
1200	XXXX	00	
1205	★JOHNSON ROY A CPA	915-8794	9
1217	XXXX	00	
1220	THE OLIVE TREE APTS		
	AUSTIN Barry	915-4089	1
	BOYER Sheila	966-6742	3
	CHAMBERS Jo L	966-4528	2
	CRANE Lewis	339-9722	
	DEEMAR David	332-1704	+4
	EGLER Lloyd	915-5910	2
	FIOCCA Salvatore C	331-5435	5
	GIOK Lan Khoe	331-3691	8
	MCCLELLAND Jas P	966-6596	8
	MILLER Thos	339-6545	9
	MORGAN Ronald	915-6132	8
223	★OLIVE TREE APTS	967-7706	
	POON Lex	331-5205	+4
	ROBERTSON Maxie	332-8951	9
	ROWE Marcus	966-9847	
	STEFFEN Ron	332-9861	7
	TOANG Hoa Bich	339-6344	+4
1220			
1229	★WEIHE Wade	967-2622	0
1235	XXXX	00	
1241½	★BOWERS AIR CONDG	915-4514	3
1247	★CENTURY 21 CITRUS	331-7301	
	★CITRUS REALTY	331-7301	
	★LEXIS MRTG BROKERS	858-0256	+4
1250	APARTMENTS		
	ANDAYA E M	332-8779	+4
	BOISCLAIR D	331-5031	7
	CIRNI S A	331-4244	0
	DAVIS Jerry	915-6471	3
	GRAMAJO Rodolfo	331-2405	1
	JACKSON S V	331-4244	0
	JANES D S	966-5176	5
24	LLOYD Lois G	339-4041	
	MASSEY Larry L	966-7881	2
	ROSS R L	915-4373	
	SANDOVAL Felipe	966-5010	2
1250			
1255	★COVINA CHIROPRACTOR	339-3310	6
	★RUSSO JOHN C DC	339-3310	
1257	★BECK JEFFREY	331-7391	
	★FOOT&ANKLE CENTER	331-7391	8
	★HARA B DPM	331-7391	
	★HARA PODIATRISTS	331-7391	
	★WOO R DPM	331-7391	2
1269	★CHIEF AUTO PARTS	967-0584	5
1270	XXXX	00	
1271	XXXX	00	
1274	★LARK ELLEN SHELL	331-2089	6
1275	★SEVEN 11 FOOD 19251	966-4779	
1313	XXXX	00	
1343	LAS TUNAS GARDENS		
	AHN Young	339-4207	3
	ARROYO E	331-2634	+4
	ARROYO G	331-2634	
	BOND Emma	966-4660	0
	CORNELIUS Paul	967-9849	+4
	HANEY Barry	915-1029	2
	HAWLEY Howard H	966-9435	3
	IRVING Oritha	966-5798	+4
	JAURRETCHE Desiree	339-8545	+4
	KIM Hansu	967-1540	+4
	★LAS TUNAS GARDENS	339-1158	5
	MERRY Jesse	339-4822	
	MEZA Socorro	331-5117	3
	OH Unsok	858-0086	3
	PAK Poyong	858-0086	3
	PEREZ James	858-0951	2
	PEREZ Jas H	967-6968	0
	ROSE Mary	966-7678	+4
	★STEVENS	332-0707	+4
	SZABO Elizabeth	331-2305	+4
	THOMPSON Valerie D	331-1911	2
	WANG Hyun Chul	858-0360	3
1343			
1375	APARTMENTS		
	BURNSTEIN Alan	331-8141	0
	CHIANG Fei Fei	331-2038	+4
	COOK M	331-2197	+4
	DAKE Gary	915-7261	+4
	DELEON Elinor	915-1659	+4
	DUKES David	332-3422	+4
	FINLAND Steve	339-2608	3
	FOGEL R I	966-4645	+4
	FULLER Myrtice	858-9181	3
	GODFREY Greg	915-7400	+4
	HAFNER Jennifer	339-6002	+4
	KILGORE Kari	966-2990	+4
	★MOUNTAIN VW VENTURE	331-1403	0
	PHILLIPS Steven	331-4183	+4
	PRESTON Terry	915-7964	+4
	RODRIGUEZ Ignacio	966-2202	3
	ROMERO Luis A	966-4073	+4
	ROSS William	966-5509	+4
	VERA Gabriel J	331-1747	3
	WILLIAMS Kurt	339-8441	5
	WOOD Tony	339-7265	1
1375			
1409	XXXX	00	
1413	LUC Chas	858-9902	1
	LUC Jeannie	858-9893	1

..SAN BERNARDINO RD W 91722 CONT.

1415	XXXX	00	
1417	BUTTERFIELD Lana	332-0204	1
	SANTOS A	966-0863	1
1419	ESTIN L	915-7586	1
	HOLTGEERTS Robt	966-4470	0
	ROBERTS Jas R	331-1440	2
1423	HERNANDEZ Roy	858-0451	1
	SWANBERG Peter H	331-7636	
1425	DELOACH David B	339-7918	2
1427	BYRNE W L	915-3243	
	VELOZ Linda	915-5792	+4
1429	BRIM Geo	966-7214	
	HARRELL Jeannie	331-3290	2
	LECHTENBERG I O	331-4751	
	MEZA E	331-6203	3
1431	XXXX	00	
1433	LUU Dat	332-9196	+4
1434	XXXX	00	
1435	RIEGER Raymond	332-1075	5
1533	XXXX	00	
1550	XXXX	00	
1566	★CREATIVE FORMS PLUS	915-5776	+4
	★STUFF IT MAILNG SYS	915-5776	+4
1568	★CONCORD DOOR&GLASS	339-6774	1
1572	★DROP YOUR JEANS OFF	331-4354	+4
1574	XXXX	00	
1576	★E S I	332-5631	1
1578	★CLEVER CHOICE	332-9780	+4
	★METALS RECOVERY CO	967-2871	
	★SINGLEY CONSTR	966-2913	1
F	★HOUSE OF MTL ENGNG	331-5339	9
1580	★BILLS PRCSN GRINDNG	331-6322	5
	★D V PRINTING	332-8058	+4
	★K W CONSTRUCTION	966-1423	7
	★WILKINSON TRSH CNTS	331-3014	
1611	★BARBARAS EMBROIDERY	332-8117	2
	★CARPENTERS SON THE	967-5674	2
	★COVINA RACE CO THE	331-4984	1
	★J&J COMPUTER SYSTMS	915-8998	2
	★THE CARPENTERS SON	967-5674	2
1635	★ROBS AUTOMTV RPRS	331-4451	7
1647	★COVINA ENGINE RBLDG	332-3334	1
	★SERVICE PRO AUTOMTV	332-4790	+4
1656	★SCHEIB EARL PNT SHP	966-6444	
1661	★LOBBY THE	966-3329	8
	★THE LOBBY MXCN REST	966-3329	2
1665	XXXX	00	
	★ 168 BUS 213 RES	76 NEW	

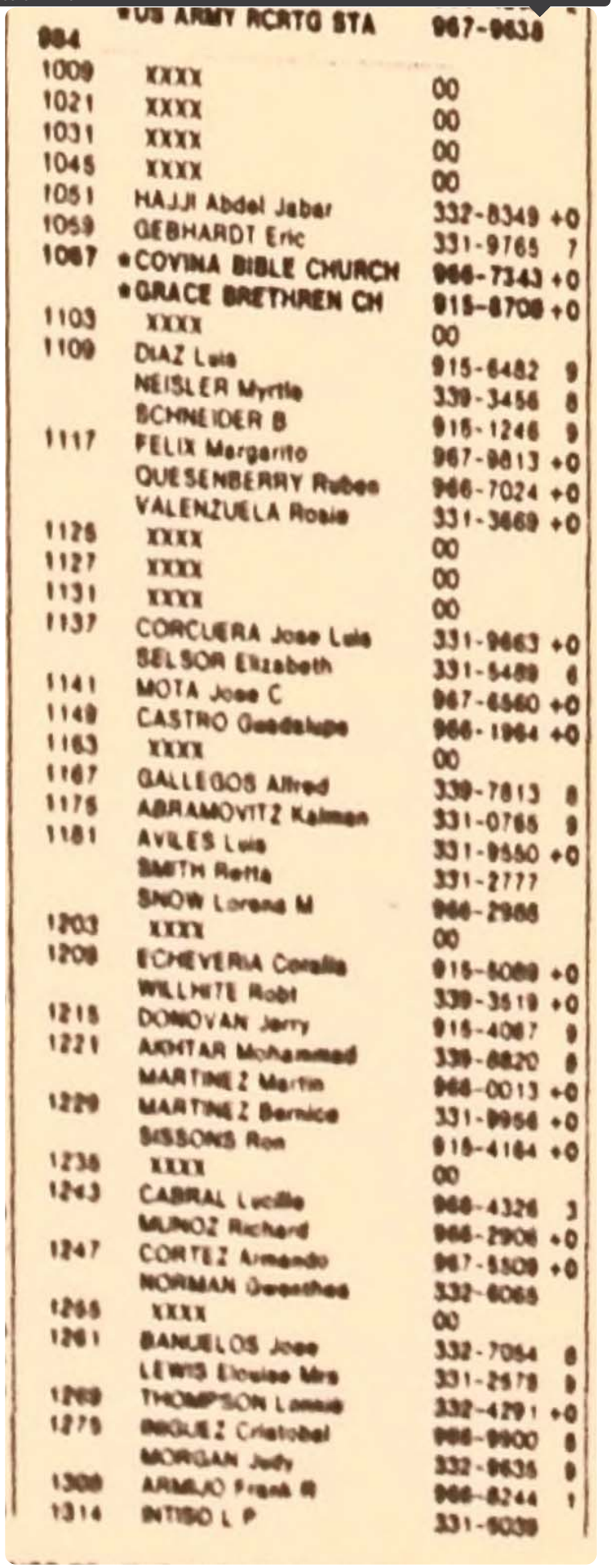
SAN BERNARDINO RD W
91790 WEST COVINA

WEALTH CODE 3.1

1513	WEST COVINA APTS	962-4293	3
	BLAND D R	814-9075	+4
	CARATTINI Iris	858-1958	3
	GONZALEZ Dora	338-4381	3
	HABAGAT Maria T	338-8781	3
	MAGANA Ochoa R	337-9302	3
	RABINO Iangani	338-3418	
100	★WEST COV APARTMENTS	962-4330	
	WORMAN Doris		
1513		338-9667	2
1517	AVINA Rogelio	337-1498	+4
	GOZUN Eduardo	338-6533	7
	SALAS Patricia	337-4758	+4
1521	ESPINOZA Sandy	813-9790	+4
	GARCIA Martha	962-4408	+4
	JAFFER Mohammed	814-9361	+4
	VENEGAS Angel Jesse		
1525	APARTMENTS	813-8726	+4
	CARO Ramon	962-2835	+4
	CASTILLO Jose Dael	962-8023	+4
	MORA Maria	814-3770	+4
	RAIGOZA Irma L	814-1251	+4
	RODRIGEZ Roberto E	858-0455	3
	TRONCOSO Luis M		
1525		00	
1527	XXXX	814-8896	0
1529	APARTMENTS	962-3111	1
	BAUGH Velma	962-1569	+4
	DELACRUZ Jose	814-0847	+4
	ESPINOZA Carlos	338-1529	1
	LEDESMA Jose A	338-9257	+4
	MICKS R M	962-0173	
	MONTOYA Josefa	962-0173	
	VANEGAS Ismael		
	VANEGAS Monica	338-3014	
1529		962-8740	+4
1530	★LISAS COFFEE SHOP	962-3525	+4
1533	APARTMENTS	813-9025	+4
	AUSTIN Derrick L	962-0262	+4
	BAUTISTA Jose J	962-1418	+4
	BLANCO Maria	962-9607	+4
	LUGO Efren		
	MENDEZ Lilian	337-7694	+4
	MENDOZA Leopoldo	337-9361	1
1533		813-8101	+4
1537	DELGADO Ismael	338-4187	+4
	FIGUEROA Jose I	915-5994	7
	KALSEY T	337-7413	+4
	MORENO Matias	813-2288	+4
1540	★ACADEMY SIGNS	337-3641	+4
1541	RENTERIA Armando		
1545	JARMIN Maria	962-8774	+4
	MENDOZA Justino P	962-4357	+4
1549	APARTMENTS	962-2559	+4
	CABANAS Dario	962-3525	+4
	ESTRADA Carmen	814-3525	+4
	GUTIERREZ Pedro	814-9636	+4
	SOTO Maria Estela		
	TRANG Ouyee	967-4511	
1549		00	
1554	★BUDS MUFFLER SHOP	332-8703	
1568	XXXX	00	
1568	XXXX	967-2671	
1570	★COVINA INDSTRL PARK	915-7705	
1576	XXXX	331-4810	
1578	★BECK CHRS	331-5251	
	★COVINA SIGN ENTPRS	962-6298	
A	★COVINA SCREENPATIO	331-3074	
C	★RAECO PRECISION	339-3716	
1580	★G&M PRECISION	339-4818	
	★WILKINSON CO	338-8429	
D	★DIAMOND E D WIRE	338-1171	
1600	★WEBER MILLER& BAKER	962-8854	
1611	★BLACKARDS TOWING	962-5221	
1623	★PICKS BUILDING MTRL	962-2541	
1631	★CA RANCH FRESH INC	962-5321	
	★EGGS WEST	337-0111	
	FOSTER Ann	00	7
	FOSTER Dean	332-1600	7
	★FOSTER ENTERPRISES	962-8179	7
	★SUN FRESH	00	
1635	XXXX	331-7981	9
1641	★SOCIETY CLEANERS	332-3818	
1643	★ALTA DENA DAIRY	962-8656	6
1647	XXXX	818-8438	
1656	XXXX	00	
1661	MARQUEZ Daniel	338-2004	6
1665	★JOHNNYS LORADELI	00	
1680	★VINCENT ANCO	962-9966	
1681	★BURGER KING	337-6212	
1710	XXXX	337-6212	
1723	★GROSS EGG RANCH	962-4051	
1731	XXXX	962-4051	
1733	★R K KENNEL	337-0043	2
1741	★CANIS MEA KENNELS	337-2003	2
	★MEA CANIS KENNELS		
1807	★CITY REFUSE SERVICE		
	★WEST COV DISPSL CO		
1833	★BROWN SIDNEY DVM		
	★LEE KWANG DVM		

1990-1991
SOURCE: HAINES

BADILLO STREET - A



	★US ARMY RCRTG STA	967-9638	
984			
1009	XXXX	00	
1021	XXXX	00	
1031	XXXX	00	
1045	XXXX	00	
1051	HAJJI Abdel Jabar	332-8349	+0
1059	GEBHARDT Eric	331-9765	7
1067	★COVINA BIBLE CHURCH	966-7343	+0
	★GRACE BRETHREN CH	915-8708	+0
1103	XXXX	00	
1109	DIAZ Luis	915-6482	9
	NEISLER Myrtle	339-3456	8
	SCHNEIDER B	915-1246	9
1117	FELIX Margarito	967-9813	+0
	QUESENBERRY Rubee	966-7024	+0
	VALENZUELA Rosie	331-3669	+0
1125	XXXX	00	
1127	XXXX	00	
1131	XXXX	00	
1137	CORCUERA Jose Luis	331-9663	+0
	SELSOR Elizabeth	331-5489	6
1141	MOTA Jose C	967-6560	+0
1149	CASTRO Guadalupe	966-1964	+0
1163	XXXX	00	
1167	GALLEGOS Alfred	339-7813	8
1175	ABRAMOVITZ Kalman	331-0765	9
1181	AVILES Luis	331-9550	+0
	SMITH Retta	331-2777	
	SNOW Lorena M	966-2966	
1203	XXXX	00	
1209	ECHEVERIA Corelia	915-6089	+0
	WILHITE Robt	339-3519	+0
1215	DONOVAN Jerry	915-4087	9
1221	AKHTAR Mohammed	339-6820	8
	MARTINEZ Martin	966-0013	+0
1229	MARTINEZ Bernice	331-9956	+0
	SISSONS Ron	915-4164	+0
1235	XXXX	00	
1243	CABRAL Lucille	966-4326	3
	MUNOZ Richard	966-2906	+0
1247	CORTEZ Armando	967-5509	+0
	NORMAN Gwendhea	332-6065	
1265	XXXX	00	
1281	BANUELOS Jose	332-7064	8
	LEWIS Eloise Mrs	331-2578	9
1289	THOMPSON Lonnie	332-4291	+0
1295	INGUEZ Cristobal	966-9900	8
	MORGAN Judy	332-9635	9
1309	ARMIJO Frank R	966-8244	1
1314	INTISO L P	331-9039	

		91724 CONT.
1322	XXXX	00
1338	XXXX	00
1356	XXXX	00
1360	CARPENTER C Anthony	331-9511
1375	XXXX	00
1380	VIOLETT Louis	967-3261
1384	COOPER Wm E	915-3050
1450	XXXX	00
1460	XXXX	00
1480	XXXX	00
1504	XXXX	00
1524	SCHOFIELD Paul C	

980	DO Kinh Van	915-5706 +0
984	XXXX	00
1004	TOLSON D Scott	966-1013 9
1014	XXXX	00
1032	XXXX	00
1041	★BENSON COLLEEN PHD	331-0071 +0
	★CLEM F C&CO	967-2715 +0
	★CLEM SUSAN ATTY	966-0020 +0
	★COVINA PSYCHLGCL SV	331-0071 +0
	★EGAN VIRGINIA E CPA	967-5218 +0
	★KERSHAW L SLS DRCTR	915-0232 +0
	★MONSON L ATTY	331-0787 +0
	★O M C INSURANCE AG	915-5145 9
	★O M C INSURANCE AG	967-7581
	★OCCIDENTAL MORTGAGE	967-7581
	★TRANSAM FNCL SERVS	339-1261 +0
	★ZABRISKIE C PHD	331-0071 +0
1050	XXXX	00
1061	★ENGINEERED INS SERV	966-1775 3
	★HART GOLF CO	966-1776 +0
	★HUMMER INS AGNCY	966-1775 3
	★I G C DISTRIBUTION	966-5812 +0
1065	★RADIO SHACK	966-2270
	★TANDY ELCTRNC STR	966-2270 8
1069	XXXX	00
1082	XXXX	00
1085	★CARMICHAEL DAVID P	915-5661 7
	★NOVELL RAYMOND ATTY	967-7966 4
	★VESEY THOMAS A ATTY	967-7966 8
1103	★BEVLI ACADEMY	332-3991 3
	★BEVLI ACADEMY	332-3881 6
	★BEVLI MONTESSORI	915-7429 8
	★COMPUTER&MONTESSORI	332-3991 3
	★MONTESSORI PRNCE SC	332-3881
	★MONTESSORI SCHOOL	332-3881
	★MONTESSORI&CMPTR SC	332-3991 3
	★PRINCE N PRINCESS	332-3881 7
1108	XXXX	00
1109	XXXX	00
1111	★DIAL A PRAYER UNITY	339-6520
	★UNITY CH OF FTHLLS	966-8002
1117	SANCHEZ Anthony	339-9063 9
1119	PEREZ Rutilo	966-6834 +0
1121	XXXX	00
1123	XXXX	00
1127	LOPEZ Dani	332-5409 +0
1129	XXXX	00
1131	CEDAR RIDGE TWNHSES	
	DUFF B P	967-1934
	GORMAN John F	966-8874 7
	LESLIE S M	966-0344 1
1131		
1135	EDDY J	332-1940 7
	MULLEN Jas	339-8729
	MULLEN Phillip	339-8729
1139	OLINGER R Michael	339-5843 9
1141	XXXX	00
1143	FAIRES Jerry	966-5806
	JIMENEZ Gilbert	339-0058
	JIMENEZ Loree	339-0058 +0
1147	BERRIER Chas E	339-8068 6
	ROE Gerald N	966-5477
	SWARTZENDRUBER R	966-0939 5
	TREICHEL Allen	339-0846 5
1151	APARTMENTS	
	FRANCIS G	331-8680
	HULME Judith	339-2961 +0
	REEDY J L	331-7503 4
	RICCI Emanuele	966-2685 9
	SIMMONS Ray	966-8354 +0
	WHELAN R	967-0811
1151		
1155	MOOERS Michael	331-8589 7
1163	CAMERON John	339-8785 8
	CONNOR Warren W	966-7344 9
	HALL Bryan	331-8501 9
	NEAL David	332-7546 9
1171	APARTMENTS	
	KIM Young Cho	967-7381 +0
	KUNS Matthew	915-0108 +0
	SHAH Janak	339-2655 9
	SHAH Jyoti	339-2658
	WARD Jeffrey	331-3071 +0
	WIELAND D	967-4434
	WIELAND M	967-4434 +0
1171		
1181	JORDAN Scott	915-7343 9
1183	HEDDEN Ralph	966-5812 9
1185	XXXX	00
1189	XXXX	00
1201	BLOOMER Emma	331-5738 3
	HOLMQUIST Roberta L	331-5738 3
1203	MARTINEZ Cathy	967-4746
	MARTINEZ Robt	967-4746
1204	TENNEY Francis R	332-5803 6
1207	CORTEZ Kenny	966-3836 9
1211	NEWTON Rakesh D	967-4378 +0
1216	XXXX	00
1227	XXXX	00
1228	XXXX	00
1229	XXXX	00
1233	STILES Robt	331-8180 2

BADILLO W 91722 CONT

1237	XXXX	00
1243	PAVEGLIO Gerald	339-9146
	*REALISTIC REALTY	966-6816 2
1250	XXXX	00
1270	CADENA Richard H	331-0417
1271	*CHURCH JESUS CHRIST	332-7979
	*CHURCH JESUS CHRIST	332-8418 8
	*CHURCH JESUS CHRIST	332-3082 8

* 218 BUS 145 RES 73 NEW

BADILLO W 91773
SAN DIMAS

1406	TERRELL Jeff	592-4340
1408	TOOMOTH Kelly	592-6274 +0
1414	FELDMAN Carolyn V	599-4122
	FELDMAN Myron R	599-4122
1418	PAIGE N L	599-6626
1422	*COMMERCL PLUS JNTRL	599-5758
1424	MAYER Constance	599-6194
1430	XXXX	00
1432	ARBOGAST Thos	599-2815
1436	STEELE Paul A	599-4176
1438	XXXX	00
1441	XXXX	00
1444	XXXX	00
1446	XXXX	00
1450	KRAMER A M	394-0719 +
	KRAMER P E	332-3780
1452	XXXX	00
1454	HANES Robt G	592-0428
1456	ETZEN David J	332-9577
1458	WALTER R D	599-8764
1460	SANTOGEANIS Paul W	599-0013
1464	XXXX	00
1466	RAINES Jerry	599-2531 +
	RAINES Laura	599-2531 +
1468	XXXX	00
1476	SIXT Earl R	599-3136
1478	AUGUST Ronald	599-6243
1480	MORRIS Frankie	599-2590
1482	GOGGINS David	599-6501
1484	BARBAR Dale	599-5756
1486	XXXX	00
1488	XXXX	00
1603	XXXX	00
1621	XXXX	00

* 1 BUS 33 RES 4 NEW

BADILLO W 91790
WEST COVINA

1417	*WEST COV ASMBLY GOD	338-0419
1437	*CHURCH THE NAZARENE	962-2740
	*KOREAN EVANGELICAL	338-7170
	*NAZARENE CH W COV	962-2740
1800	HERITAGE PARK APTS	

997	XXXX	00
999	XXXX	00
1010	*BUILDERS EMPRM COV	331-7381
1011	*YAMAHA OF COVINA	332-6249 2
	*YAMAHA OF COVINA	599-6942 3
1017	*COVINA KAWASAKI	967-4181 9
	*KAWASAKI COVINA	967-4181
	*MOTORCYCLE SPCLTES	967-4181
1019	XXXX	00
1035	*STORTZ CARPET CLNG	331-0868
1039	*NAUGLES RESTAURANT	332-2133
1055	XXXX	00
1060	*BRUTOCO DVLPMNT CO	339-1286
	*COVINA BOWL	339-1286
1062	*ACCENT ON BEAUTY	331-3010 5
1069	*CHINA INN	339-8840 8
1108	APARTMENTS	
	ANDERSON Michael	966-6446 8
	CARTER Ellen	967-7037 +0
	*CONTL GARDEN APTS	332-3805 8
	DEAN Arthur	332-1626 9
	EVENSTAD Sue	339-8467 9
	GRANDADOS Henry	331-1759 +0
	SABALA John W	967-5389 9
1108		
1109	BUILDING	
	*BLOOMENSTEIN M CPA	966-8694 3
	*GENL BKKPG&TAX SERV	966-0959 9
	*HEIMIN ENTERPRISES	332-1153 2
	*LITTON FULLER CO	967-9727 9
	*PEKING ACUPUNCTURE	967-9797 3
	*PROFSNL FNCL PLNNG	332-8080 4
	*SANCHEZ LUCY	331-4356 +0
	*SEQUEIRA INS AGENCY	915-6548 8
	*T T C THE TEACHERS	331-2111
	*TEACHERS TAX CO	331-2111
	*WESTENDORF LEON	915-1010 6
	WESTENDORF Leon F	332-8080 4
1109		
1110	XXXX	00
1112	XXXX	00
1114	*IVANHO RESTAURANT	332-7492 +0
1123	XXXX	00
1130	APARTMENTS	
	ANCHONDO Ruben	967-9856 8
	ARMSTRONG Eldridge	915-3008 9
	AZOUZ Robt	966-5764
	BANIM Vince	331-4476 9
	BORN Leroy	966-6761 3
	CASTELLANOS Jon	966-4047 +0
	CORREA Marylou	967-9057 9
	FLORES Susana	332-8523 +0
	HARRIS Danny	967-2025 +0
	HERNANDEZ Sonia	332-4995 +0
	JOHNSON Patricia	332-8521 +0
	KIM Chong	331-3408 +0
	MARTIN Wilson	915-1272 +0
	MORALES Ramon	339-0541 +0
	PAGE John	966-8009 +0
	PEDRASA Patricia	966-9694 +0
	SALAGAN Geo	331-2617 9
	TIRUPASUR Kosal	332-8830 +0
1130		
1131	XXXX	00
1139	*NURSING EDUCTN ASSN	967-7546
1145	XXXX	00
1151	MYSLICKI Jos S	967-4297 9
	MYSLICKI Jos S	331-9414 9
	*STATE FARM INS AGNT	967-4297
	*STATE FARM INS AGNT	331-9414 9
1170	APARTMENTS	
	ABALOS Domingo	966-7640 8
	ALVAREZ Alberto	332-4873 +0
	BOAT S	331-6514 +0
	*BRYMARC MANAGEMENT	966-2488 9
	CHANDHOK Kewal K	966-4698 6
	COTA Miguel	966-2979 +0
	DAIGLE M	339-9020 9
	FLORES Yolanda	967-9041 +0
	GALLARDO Frank	332-2875 1
	GOOSSENS Niel A	332-4954 +0
	HECK M Helen	966-5071 7
	HOUSTON Lavell	332-1417 +0
	JOHNSON Frank	915-3378 9
	JOHNSON J	331-1578 3
	JOHNSON Mark A	966-9467 +0
	KUCZABOSKI Rosemary	339-2528 6
	LOGREIRA D C	331-2537
	LOGREIRA R C	331-2537
	LUNDEN Peggy	331-0260 9
	NNAJI Billy	339-2662 +0
	OESTERLING Manfred	339-0621 7
	PHILLIPS Mark	332-3606 +0
	PHUNG Ed	966-9772 +0
	RAMZY Arthur	966-8465 9
	SCHOBER Andy	915-0169 +0
	SOMMERS Jas	915-2694 6
	TROMBLEY Lawrence F	339-5635
	VALANCY Isaac	966-1290 7
	VEGA Cecilia	915-8394
	VEGA Vlademir	915-8394
	ZANGENBERG Torben	331-4266 +0
1170		
1171	BUILDING	
	*AARON P SHARMA&ASC	332-2617 8
	*ABDULS AUTO SALE	967-7051 +0
	*AMER PRO SERVICES	339-2202 8
	*BLUE CROSS	339-2202 8
	*BLUE CROSS SERVICE	332-3332 9
	*FREEMAN JOHN DR	915-1262 7
	*I T S	966-1655 +0
	*IDEAL TELEMARKETING	331-8943 +0
	*IDEAL TELEMARKETING	966-9697 +0
	*R M C R DATA	332-2285 +0
	*RAYSHIRE SCHOOL	339-3828 +0
	*URBAN REALTY ENTPRS	339-1186 +0
1171		
1200	XXXX	00
1205	*JOHNSON ROT A CPA	915-8794 9
	*STAGNER MICHAEL CPA	915-8794 9
1217	*AIR BALANCE CO	967-4283 1
	*BUILDING CMSNG THE	967-6810 7
	*ENERDYNE CO INC	915-5327 7
	*MORUA BAY PRTNRSHP	966-9949 +0
1220	THE OLIVE TREE APTS	
	ANSON Gwendolyn	966-6201
	ANSON John Ross	966-6201

GE MAY NOT BE KEYPUNCHED ENTERED

1990-1991 — SAN BERNARDINO ROAD - B

SOURCE: HAINES

SAN BERNARDINO RD W — 91722 CONT...

BYRD Tony 967-7890 +0
CAPPUCCILLI Chas 339-1621 6
CONTRERAS Ernest 339-6427 +0
CRANE Lewis 339-9722 1
FIOCCA Salvatore C 331-5435 5
FUKUYAMA Junichi 332-2096 +0
GIOK Lan Khoe 331-3691 8
MCCLELLAND Jas P 966-6596 8
MILLER Thos 339-6545 9
MOHAN Wm 966-6873 5
MORGAN Ronald 915-6132 8
MOTLEY Larry 339-7662 9
223 *OLIVE TREE APTS 967-7706
ROBERTSON Maxie 332-8951 9
ROWE Marcus 966-9847 4
RYAN Mike 339-2656 +0
STEFFEN Ron 332-9881 7
ST JEAN Dorothy 331-1018 3
STOCKSDALE John E 967-1729 +0
SUTTON Kenneth P 966-1994 +0
107 TEMPLE John 339-2160
VARGAS Vivian 967-6975 +0
VASQUEZ Lissette 966-7971 +0
VENCILL M 332-2221 4
VIRDEN Kevin 331-1397 9
WAAS Robt A 339-8574 +0
WHITESIDE Garth 967-6497 9

1220
1229 WEIHE Wade 967-2622 +0
1235 MILLER Hugh V 331-1468
1241 *ALLEN TAX SERVICE 339-4447
1247 *CENTURY 21 CITRUS 331-7301
*CITRUS REALTY 331-7301
1250 APARTMENTS
ALVAREZ Jos 339-0300 +0
BOISCLAIR D 331-5031 7
CIRNI S A 331-4244 +0
COLSON Gwen 331-3635 +0
COLSON Jas 331-3635
COVARRUBIAS Luis 967-9931 +0
GALLARDO Dolores 339-6190 9
GORTMAKER Gordon 339-2652 7
JACKSON S V 331-4244 +0
JANES D S 966-5176 5
24 LLOYD Lois G 339-4041
LOPEZ Yvonne 332-6428 +0
MONTANARELLO S 966-3446 9
OUBER N C 966-6636
ROSS R L 915-4373
SEENEY A 331-5555 6
WOODS Carl J 339-7267

1250
1255 *COVINA CHIROPRACTOR 339-3310 6
*RUSSO JOHN C DC 339-3310
1257 *BECK JEFFREY 331-7391 3
*FOOT&ANKLE CENTER 331-7391 8
*HARA B DPM 331-7391
*HARA PODIATRISTS 331-7391
1269 *CHIEF AUTO PARTS 967-0584 5
1271 XXXX 00
1274 *LARK ELLEN SHELL 331-2089 5
1275 *SEVEN 11 FOOD 19251 966-4779
1313 XXXX 00
1343 LAS TUNAS GARDENS
BOND Emma 966-4660 +0
BURCHETT Bv 967-3749 9
CARLBERG Tracy 966-6109 +0
CERVANTES Sara 332-1178 +0
DAVIS J 966-5263 +0
HOLT Cindy 331-3557 +0
JACKSON Eddy 915-3828 +0
*LAS TUNAS GARDENS 339-1168 5
LUZOD Edwin 966-9295 4
MARKS Chris 967-9465 9
MERRY Jesse 339-4822 2
MONTGOMERY Willie 967-2441 +0
MOORE Larry 331-5781 2
MORGAN Mike W 966-6387 +0
PEREZ Jas H 967-6968 +0
RODUSKY Donna 967-6615 +0
SANCHU Jaspal 331-7044 +0
SPENCER C J 967-7567 +0
ULLRICH Robt 331-4366 8
VASQUEZ Horacio 339-4109 +0
VERA John A Jr 966-0347 +0
VERNICK Carol 967-0394 +0
WALLACE Dion 331-7665 +0
WATSON Carl 966-0713 +0
WICKS Betty M 331-7514 2

1343
1375 APARTMENTS
BRANDENBURG Michele 915-7406 +0
BURNSTEIN Alan 331-8141 +0
CHAABAN Riad 967-6623 8
CHOUINARD Roland J 339-3725 5
CHRISTOFFERSON J 339-5250 +0
CINTON Manuel 331-4583 +0
CORWIN Chris 331-3924 2
DEHART Jeff 966-2004 +0
DEHART Joel 339-5550 5
DEQUINA Teresida 966-4917 +0
GIOVINO Michael 332-4094 +0
HARDWAY Kevin 967-3946 +0
HARVEST Reginald 331-6806 9
HENNING Wm 966-4289 +0
JOHNSON Steven 915-0107 +0
KHANBIJAN Ali 966-5124 9
LAUGHLIN Tom 332-1356 7
LEIGH Ralph 966-7067 +0
LITJEN Robt 915-3261 4
MANGAWANG Benjamin 967-2616 9
MANWARING Bruce 966-0169 9
MASON Carey 339-2128 +0
MASON Rachel 331-7530 +0
MILLER J E 966-2401 8
MOON Chong 339-5411 +0
MORGAN Sammy 966-9392 +0
*MOUNTAIN VW COMMON 331-1403 +0
NEANING C 331-7530 +0
RHOTEN Deena J 966-3449 +0
ROCHA Anthony A 967-7172 +0
*S&J ENTERPRISES 966-0169 9
SHIOMOTO Lee K 339-3067 9
SZYMONIAK Michelle 967-3347 8
TALAVARI Tony 966-1235 +0
WELLWE Dale 332-9656 +0
WILKINS Peter 332-9655 +0
WILKINSON Tamra 967-2689 +0
WILLIAMS Kurt 339-8441 5
YAMAMOTO Fumiko 332-6399 +0

1375
1409 AROCHA Fred 915-0213 +0
1413 BRABEC Rick 332-8027 +0
1415 XXXX 00
1417 NOYES Raymond 332-8908 9
ONTIVEROS Lydia 339-3394 8
PIOTROWSKI Andrzej 967-4867 +0
PIOTROWSKI Sally 967-4867
1419 HOLTGEERTS Robt 966-4470 +0
MARCINE A 339-9178 8
ROBERTS Jas R 331-1440 2
RUSSI Bartello 966-0391
RUSSI Linda 966-0391
1423 CARR John P 332-0701 1
MALDONADO Rosa 339-5405 9
SWANBERG Peter H 331-2636 1
1425 DELANEY Dennis 339-1075 +0
WADE Marc 966-1389 +0
1427 BYRNE W L 915-3243 4
1429 BRIM Geo 966-7214 4
LECHTENBERG I O 331-4751 4
MARTINEZ Anthony 967-9824 +0
NOWACKI Jeannie 331-3290 7
1431 BRUNO Don 331-9417 9
GALLANT Patrick 332-5390 +0
1434 STEWART S 332-3427 +0
1435 CORTEZ Faith 339-5800 8

SAN BERNARDINO RD W — 91722 CONT...

RIEGER Raymond 332-1075 5
1550 *TONYS SUPER BURGERS 331-5543
1566 *ADVANCED FASHIONS 332-1999 9
1568 *ASSOCTD CARPET SERV 332-9847 6
*INSURANCE RPR CDNTR 331-7426 8
1572 *SEPULVEDA CONSTR 966-8381 8
1578 *L K CMNCTNS MNG SVS 331-3368 8
*METALS RECOVERY CO 967-2871 2
F *MICHAEL E HUBLER 331-8515 7
1580 *HOUSE OF MTL ENGRG 331-5539 9
*C W OVERSEAS CORP 332-9387 8
*CAL TECH DIAGNOSTCS 331-9763 8
*K W CONSTR CO INC 966-1423 7
*WILKINSON TRSH CNTS 331-3014
1611 *A J B RACING CO 915-1411 +0
*CONCORD DOOR&GLASS 339-6774 +0
*EMBERYS CRAFT SPLY 339-0703 +0
*INFOLAND ENTERPRISE 332-7088 +0
*J&J COMPUTER SYSTMS 915-8998 +0
1635 *ROBS AUTOMTV RPRS 331-4451 7
1661 *LOBBY THE 966-3328 9
1680 *U HAUL CO 967-8050 9
* 139 BUS 274 RES 126 NEW

SAN BERNARDINO RD W
91790 WEST COVINA

1513 WEST COVINA APTS
CHU Soon 960-3751 +0
GARCIA Armando 337-7854 9
HAYES J 960-3508 +0
HOLGUIN Ann 962-7658 7
JIN Yon Hui 338-9313 8
100 *WEST COV APARTMENTS 338-3418
WORMAN Doris 962-4330
ZARZAR Sam 338-0461
ZARZAR Walid 338-0461

1513
1517 APARTMENTS
DELCID Francisco 337-2131 +0
GOZUN Eduardo 338-6159 +0
GUTIERREZ John 960-1506 +0
MUNIVE Camilo Jr 337-4576 8
PHAN Dung V 337-4303 8
SALAZAR C 338-3310 +0

1517
1521 MCCREARY Vivian 962-5243 7
NAVARRO Dolores 960-2899 +0
PEREZ Benjamin 338-8754 +0
1525 LOWERY Pamela 338-6617 6
1527 XXXX 00
1529 APARTMENTS
BAUGH Velma 814-8696 +0
MICKS R M 338-1925 5
SALCEDO Carlos 338-7245 +0
TORNERO Ricardo 960-2660 +0
VENEGAS Victor 960-2752 9

1529
1530 *LISAS COFFEE SHOP 339-2014 1
1533 APARTMENTS
AVINA Rogelio 338-9439 +0
DAVID Edilberto 337-8426 +0
DOLAK Howard 960-1297 +0
DOMINGO Santana 962-7716 +0
LOPEZ Douglas 960-2311 7
NUSBAUM John 962-2502 7
POTTS C 338-5168 9
SALAZAR Felix 337-2955
SALAZAR Karen 337-2955
SOZA Casta 338-1055 9

1533
1537 MIDENCE Eduardo 338-5749 +0
1540 *ACADEMY SIGNS 915-5894 7
1541 APARTMENTS
GONZALES Darlen 338-4360 +0
JIMENEZ Jenny 962-2139 6
KIM Thaek I L 960-0116 5
KURTZ Edw R 962-7055 9
RENTERIA Armando 337-7413 +0
WALKER Howard 338-4765 8

1541
1545 AN Young Nok 337-7356 9
MURO Ramiro 338-4514 9
1549 APARTMENTS
ALTAMIRANO Ismael 338-3845 +0
ARRIETA Kelli 337-1987 +0
BANK Nandor 814-0258 +0
CHO Pung Koo 814-0100 +0
LEE Hi Joong 338-3028 5
MASUD Abul 337-2968 +0
ORTIZ Julio 814-8682 +0

1549
1554 *BUDS MUFFLER SHOP 967-4511 2
1566 XXXX 00
1568 *DIVERSFD BUILDERS 915-2018 4
*DIVERSFD ELECTRIC 915-2048 7
1570 *COVINA INDSTRL PARK 332-9723
1576 *INTL IRRIGATION INC 339-0776 2
1578 *BECK CHRIS 967-2871 1
*COVINA SIGN ENTPRS 915-7709 7
A *COVINA SCREEN&PATIO 331-9510
C *RAECO PRECISION 331-5351 3
1580 *BILLS PREC GRINDING 331-6522 5
*G&M PRECISION 966-5289
*WILKINSON CO 331-3014
D *DIAMOND E D WIRE 339-3716
1600 *WEBER MILLBRK BAKER 339-4519
1611 *BLACKARDS TOWING 338-8426
1623 *PICKS BUILDING MTRL 338-1171
1631 FOSTER Ann 962-2341
FOSTER Dean 962-2341
1635 XXXX 00
1641 *SOCIETY CLEANERS 332-1889 7
1643 *ALTA DENA DAIRY 962-9178 1
1647 *COVINA ENGINE RPR 332-3334 7
*H&R DYNO&ATMTV SVC 967-1313
1656 *SCHEIB EARL PT SHP 966-4444
1661 MARQUEZ Daniel 331-7981 9
1665 *JOHNNYS LOUNGE&DELI 332-3818
1680 *VINCENT ARCO 967-8050 1
1681 *BURGER KING 915-5438 6
1710 XXXX 00
1723 *CA RANCH FRESH INC 960-9584 8
*EGGS WEST 960-5331 2
*GROSS EGG RANCH 338-5594 6
*SUN FRESH 337-0111 9
1731 XXXX 00
1733 *R K KENNEL 960-9665 6
1741 *CANIS MEA KENNELS 337-6312
*MEA CANIS KENNELS 337-6312
1807 *CITY REFUSE SERVICE 962-4031
*WEST COV DISPSL CO 962-4031
1823 *BROWN SIDNEY DVM 337-2023 3
*GREENBAUM L S DVM 337-2023
*LEE KYUNG DVM 337-2023 +0
*WEST COV PET HOSP 337-2023
1827 *COMBE ATMTV DYNO SV 960-3933
1907 *BOB LOWRY&SON AUTO 337-4828 6
*LOWRY BOB AUTO BODY 337-4828 6
1915 *KEG LIQUOR 337-1113
1921 *WEST COV AUTO BODY 962-8311 5
*WEST COV AUTO BODY 962-1506 6
1927 *SANITATION DIST OFC 962-8605
1931 *STAR MOTORS 960-3919
2009 *CONCORDE BATTERY 962-4006 1
*INTERSPACE BTTRY CO 962-4006 7
2105 *RECOVERY ROOM 338-4143 7
*THE RECOVERY ROOM 962-9150 8
2107 *HARRIS&RUTH CONTRS 960-4004 8
2113 XXXX 00
2130 XXXX 00
2131 RAINBOW MBL ESTS
ALLEN V L 337-5258
APODACA Jesse 814-3494 8
BARR Patricia 962-7458 5
42 BAZE L S 337-4268

OMPUTER OR PHOTOCOPIED, IN ANY MANNER WHATSOEVER EXCEPT AS AUTHORIZED IN WRITING BY HA

1986 — BADILLO STREET - A

SOURCE: HAINES

*US ARMY RCRTG STA 967-9638 9
1009 SULEIMAN RIBAL R 332-9466 0
1021 XXXX 00
1031 TOLENTINO TERESITA 331-4642 +6
1045 XXXX 00
1059 TORRES DAVID 967-6073 +6
1067 *NEW LF GRACE CH 915-8708 3
1103 MOLINARY RONALD 331-8095 +6
TJOA CUANDY 332-5997 +6
1109 EVANS GREG 967-4595 9
1117 GOOLSBY DOUGLAS D 339-7280 +6
THOMAS EMOGENE 966-8739
1125 XXXX 00
1127 XXXX 00
1131 XXXX 00
1137 SELSOR ELIZABETH 331-5489 +6
1141 ALAMO FRANK 332-2255 4
SCHNEIDER JEFF 966-5850 5
1149 SMITH R 914-2712 +6
1155 LAFARGA OSCAR 339-0663 +6
PORTER DAVID 331-9544 5
1163 FERRIER WARREN 339-0571 5
JARVIS MARLA 967-4688 +6
1167 GARCIA ANNA H 331-1090
KANG HYON O 915-2932 +6
1175 DUCKWORTH LABURN 967-1263 1
KOLCHINER BEN 332-4794
KSEN BOB 332-5304 9
1181 SMITH RETTA 331-2777
SNOW LORENA M 966-2988
TRAUT GERTRUDE 331-1823 0
1203 XXXX 00
1209 ABBEY ROBT JR 332-1680 +6
MELTON JAS 332-3962 5
QUINN VIRGINIA 332-5601 2
1215 XXXX 00
1221 XXXX 00
1229 FOSTER J M 339-8346 9
1235 XXXX 00
1243 CABRAL LUCILLE 966-4326 3
1247 BISHOP HARRY 339-4431 1
NORMAN GWENTHEA 332-6065
PICKENS SCOTT 339-0904 +6
1255 XXXX 00
1261 STILLWELL TERI 331-1175 +6
1269 SLAUGHTER ELIZABETH 967-5561 +6
ZIMMERMAN MICHAEL 331-2909 +6
1275 NORTON DENNIS 339-0250 5
SMITH KATHERINE 331-1335 +6
1308 ARMIJO FRANK R 966-8244 1
1314 INTISO L P 331-5039 0
1322 COWLES LARRY 915-3239 +6
1338 HOWARD DAVID 339-8188 4
1356 ROTH GEO 966-2595 8
1360 STRATMAN ELAINE 339-3064
STRATMAN VICTOR 339-3064
1375 XXXX 00
1380 XXXX 00
1384 ERKEL NEIL 966-9093 3
1542 NORENBERG LESTER J 339-8911
1650 KEYS R MICHAEL 339-2312 4

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

984	XXXX	00	
1004	CANFIELD CARL L	339-5624	
1014	XXXX	00	
1032	XXXX	00	
1050	XXXX	00	
1061	★ENGINEERED INS SERV	966-1775	3
	★HUMMER INS AGNCY	966-1775	3
1065	★RADIO SHACK COVINA	966-2270	
1069	★NATL PRGRMMD LEARNG	967-5717	3
1082	XXXX	00	
1085	★MOORE DARRELL ATTY	967-0729	4
	★NOVELL RAYMOND ATTY	967-7966	4
	★PACHECO GEO B ATTY	967-7966	+6
1103	★BEVEL ACADEMY SCHL	332-3881	+6
	★BEVLI ACADEMY	332-3991	3
	★COMPUTER&MONTESSORI	332-3991	3
	★MONTESSORI PRNCE SC	332-3881	
	★MONTESSORI SC BEVLI	332-3881	
	★MONTESSORI&CMPTR SC	332-3991	3
1108	XXXX	00	
1109	XXXX	00	
1111	★DIAL A PRAYER UNITY	339-6520	
	★UNITY CH OF FTHLLS	966-9002	0
1117	XXXX	00	
1121	XXXX	00	
1123	XXXX	00	
1127	HALDERMAN W G	332-4446	1
	LOCKWOOD C	967-4890	5
1129	XXXX	00	
1131	CEDAR RIDGE TWNHSES		
	DUFF B P	967-1934	
	JAMES L	339-6516	9
	LESLIE S M	966-0344	1
	PETERSON CORNELIUS	966-6514	4
	PETERSON J	966-6514	
1131			
1135	VICTORIA EMMANUEL	966-9602	+6
1139	OLINGER MICHAEL	331-9641	2
1141	XXXX	00	
1143	CADRUVI PAUL R	339-7090	2
	FAIRES JERRY	966-8606	
	LAVASANI MEHDI M	339-4608	1
1147	APARTMENTS		
	BERRIER CHAS E	339-8088	+6
	FISHER BYRON E	966-1045	5
	MCKEE ALBERT	966-2323	+6
	ROE GERALD N	966-6477	
	SWARTZENDRUBER R	966-0939	5
	TREICHEL ALLEN	339-0846	5
1147			
1151	APARTMENTS		
	FRANCIS LEONARD J	331-6680	0
	MCDONALD KAREN	331-8891	5
	MEEPE GAMINI	332-7819	4
	REEDY J L	331-7503	4
	VILARDO P A	966-0131	+6
	WHELAN R	967-0911	9
1151			
1155	XXXX	00	
1171	XXXX	00	
1179	XXXX	00	
1181	PHILLIPS LAWRENCE	339-3572	5
1183	XXXX	00	
1185	XXXX	00	
1187	EAST JOHN	339-4985	
	EAST TERESA	339-4985	+6
1189	ONO WAYNE	967-4685	4
1201	BLOOMER EMMA	331-5736	3
	HOLMQUIST ROBERTA L	331-5736	3
1204	TENNEY FRANCIS R	332-6603	+6
1206	KNIFFIN ISABEL	332-6685	5
1211	★MONTESSORI SC VALLY	332-1632	
1216	XXXX	00	
1227	XXXX	00	
1228	XXXX	00	
1229	XXXX	00	
1231	ROLLF D H	966-6890	
1233	STILES ROBT	331-5180	2
1235	HATFIELD DENNIS	966-7068	8
1237	XXXX	00	
1243	PAVEGLIO GERALD	339-9146	
	★REALLSTIC REALTY	966-6816	2
1250	XXXX	00	
1270	CADENA RICHARD H	331-0417	
1271	★CHURCH JESUS CHRIST	332-7979	
	★CHURCH JESUS CHRIST	332-8418	
	★SPANISH SPEAKNG SM	967-3572	0
	★ 185 BUS 139 RES	54 NEW	

BADILLO W 91773
SAN DIMAS

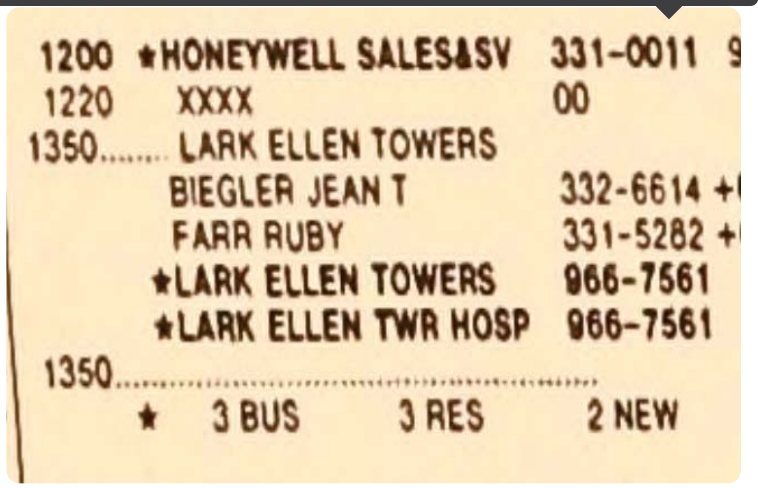
1406	XXXX	00	
1414	FELDMAN CAROLYN V	599-4122	
	FELDMAN MYRON R	599-4122	
1418	PAIGE N L	599-6626	
1422	XXXX	00	
1426	FALLGREN C	592-6609	+6
1428	STEVENS GUY	599-6507	5
1430	PETERS DENNIS	599-6668	+6
1432	ARBOGAST THOS	599-2615	2

..BADILLO W 91773 CONT..

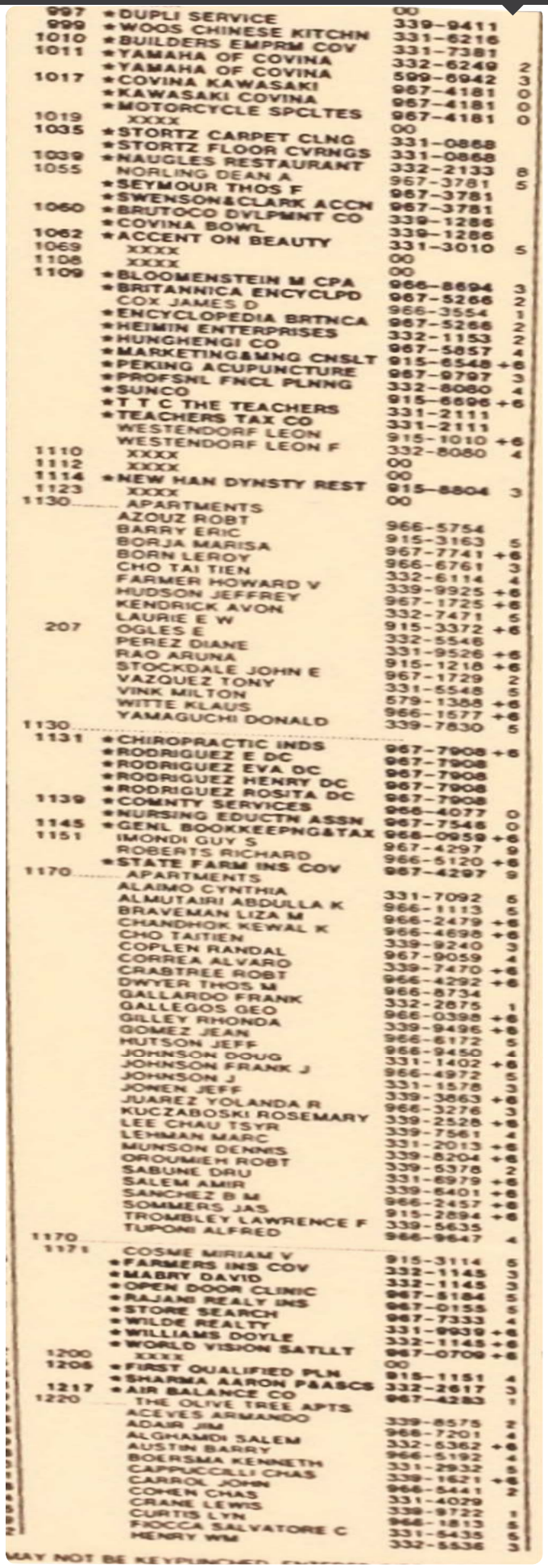
1436	XXXX	00
1438	FROST ROB	599-5529 +
1441	XXXX	00
1444	XXXX	00
1446	XXXX	00
1448	XXXX	00
1450	KRAMER P E	332-3780
1452	XXXX	00
1454	NOVACK ROSE	592-4241
1456	ETZEN DAVID J	332-9577
1458	WALTER R D	599-8764
1460	SANTOGEANIS PAUL W	599-0013
1464	XXXX	00
1468	BAUMGAERTNER M A	592-3157
1476	SIXT EARL R	599-3136
1478	ADAMS LINDA A	592-3919
1480	MORRIS FRANKIE	599-2590
1482	GOGGINS DAVID	599-6501
1484	LISS GARY	599-6590
1488	XXXX	00
1615	DUARTE ALEXANDER C	331-4174
1621	XXXX	00
1627	XXXX	00
★	0 BUS 32 RES	3 NEW

BADILLO W 91790
WEST COVINA

1417	★FAITH CHAPEL	338-0419
1437	★CHURCH THE NAZARENE	962-2740
	★NAZARENE CH W COV	962-2740

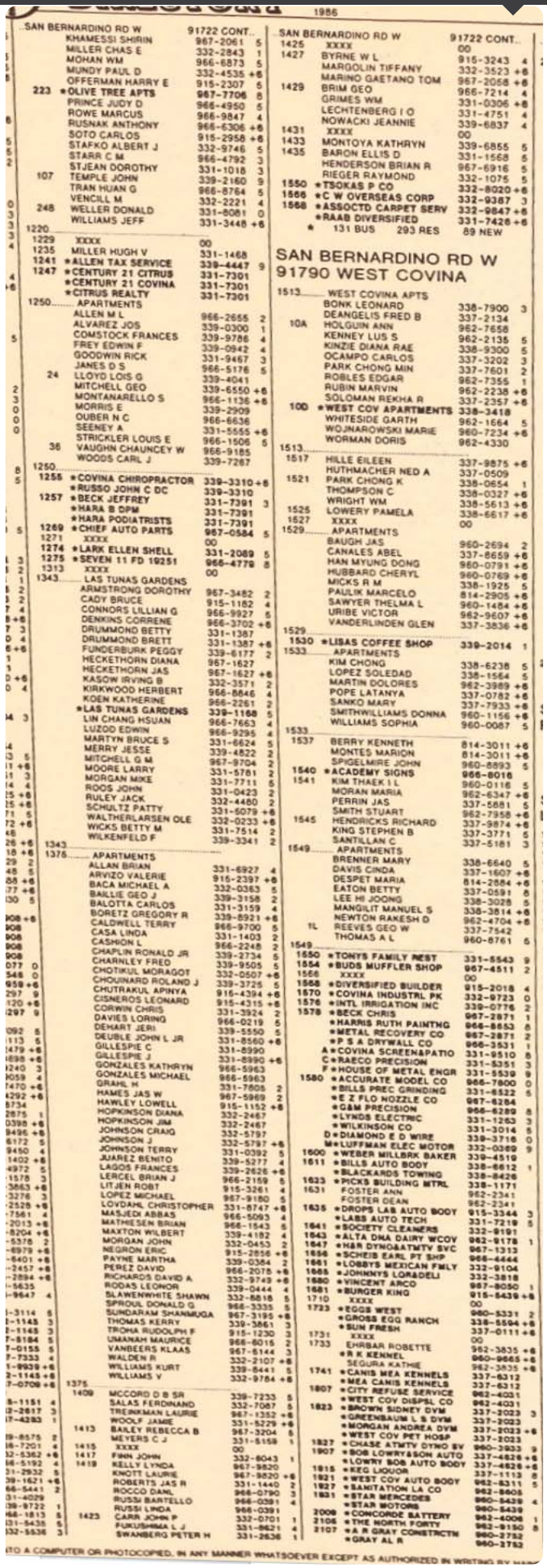


```
1200  *HONEYWELL SALES&SV      331-0011  9
1220    XXXX                   00
1350.....LARK ELLEN TOWERS
        BIEGLER JEAN T         332-6614 +
        FARR RUBY              331-5282 +
      *LARK ELLEN TOWERS       966-7561
      *LARK ELLEN TWR HOSP     966-7561
1350.....
      *  3 BUS      3 RES      2 NEW
```

```
997   *DUPLI SERVICE                00
999   *WOOS CHINESE KITCHN          339-9411
1010  *BUILDERS EMPRM COV           331-6216
1011  *YAMAHA OF COVINA             331-7381
      *YAMAHA OF COVINA             332-6249  2
1017  *COVINA KAWASAKI              599-6942  3
      *KAWASAKI COVINA              967-4181  3
      *MOTORCYCLE SPCLTES           967-4181  00
1019    XXXX                        967-4181  0
1035  *STORTZ CARPET CLNG           00
      *STORTZ FLOOR CVRNGS          331-0868
1039  *NAUGLES RESTAURANT           331-0868
1055    NORLING DEAN A              332-2133  8
      *SEYMOUR THOS F               967-3781  5
      *SWENSON&CLARK ACCN           967-3781
1060  *BRUTOCO DVLPMNT CO           967-3781
      *COVINA BOWL                  339-1286
1062  *ACCENT ON BEAUTY             339-1286
1069    XXXX                        331-3010  5
1108    XXXX                        00
1109  *BLOOMENSTEIN M CPA           00
      *BRITANNICA ENCYCLPD          966-8694  3
        COX JAMES D                 967-5266  2
      *ENCYCLOPEDIA BRTNCA          966-3554  1
      *HEIMIN ENTERPRISES           967-5266  2
      *HUNGHENGI CO                 332-1153  2
      *MARKETING&MNG CNSLT          967-5857  4
      *PEKING ACUPUNCTURE           915-6548 +6
      *PROFSNL FNCL PLNNG           967-9797  3
      *SUNCO                        332-8080  4
      *T T C THE TEACHERS           915-6696 +6
      *TEACHERS TAX CO              331-2111
        WESTENDORF LEON             331-2111
        WESTENDORF LEON F           915-1010 +6
1110    XXXX                        332-8080  4
1112    XXXX                        00
1114  *NEW HAN DYNSTY REST          00
1123    XXXX                        915-8804  3
1130.....APARTMENTS                 00
        AZOUZ ROBT
        BARRY ERIC                  966-5754
        BORJA MARISA                915-3163  5
        BORN LEROY                  967-7741 +6
        CHO TAI TIEN                966-6761  3
        FARMER HOWARD V             332-6114  4
        HUDSON JEFFREY              339-9925 +6
        KENDRICK AVON               967-1725 +6
        LAURIE E W                  332-7471  5
  207   OGLES E                     915-3372 +6
        PEREZ DIANE                 332-5546
        RAO ARUNA                   331-9526 +6
        STOCKDALE JOHN E            915-1218 +6
        VAZQUEZ TONY                967-1729  2
        VINK MILTON                 331-5548  5
        WITTE KLAUS                 579-1388 +6
        YAMAGUCHI DONALD            966-1577 +6
1130                                339-7830  5
1131  *CHIROPRACTIC INDS            967-7908 +6
      *RODRIGUEZ E DC               967-7908
      *RODRIGUEZ EVA DC             967-7908
      *RODRIGUEZ HENRY DC           967-7908
      *RODRIGUEZ ROSITA DC          967-7908
1139  *COMNTY SERVICES              966-4077  0
      *NURSING EDUCTN ASSN          967-7548  00
1145  *GENL BOOKKEEPNG&TAX          966-0959 +6
1151    IMONDI GUY S                967-4297  9
        ROBERTS RICHARD             966-5120 +6
      *STATE FARM INS COV           967-4297  9
1170.....APARTMENTS
        ALAIMO CYNTHIA              331-7092  5
        ALMUTAIRI ABDULLA K         966-1113  5
        BRAVEMAN LIZA M             966-2479 +6
        CHANDHOK KEWAL K            966-4698 +6
        CHO TAITIEN                 339-9240  3
        COPLEN RANDAL               967-9059  4
        CORREA ALVARO               339-7470 +6
        CRABTREE ROBT               966-4292 +6
        DWYER THOS M                966-8734
        GALLARDO FRANK              332-2875  1
        GALLEGOS GEO                966-0398 +6
        GILLEY RHONDA               339-9496 +6
        GOMEZ JEAN                  966-6172  5
        HUTSON JEFF                 966-9450  4
        JOHNSON DOUG                331-1402 +6
        JOHNSON FRANK J             966-4972  5
        JOHNSON J                   331-1578  3
        JONES JEFF                  339-3863 +6
        JUAREZ YOLANDA R            966-3276  3
        KUCZABOSKI ROSEMARY         339-2528 +6
        LEE CHAU TSYR               339-7561  4
        LEHMAN MARC                 331-2013 +6
        MUNSON DENNIS               339-8204 +6
        OROUMIEH ROBT               339-5378  2
        SABUNE DRU                  331-6979 +6
        SALEM AMIR                  339-6401 +6
        SANCHEZ B M                 966-2457 +6
        SOMMERS JAS                 915-2894 +6
        TROMBLEY LAWRENCE F         339-5635
        TUPONI ALFRED               966-9647  4
1170
1171    COSME MIRIAM V              915-3114  5
      *FARMERS INS COV              332-1145  3
      *MABRY DAVID                  332-1145  3
      *OPEN DOOR CLINIC             967-5184  5
      *RAJANI REALY INS             967-0155  5
      *STORE SEARCH                 967-7333  4
      *WILDE REALTY                 331-9939 +6
      *WILLIAMS DOYLE               332-1145 +6
      *WORLD VISION SATLLT          967-0709 +6
1200    XXXX                        00
1208  *FIRST QUALIFIED PLN          915-1151  4
      *SHARMA AARON P&ASCS          332-2617  3
1217  *AIR BALANCE CO               967-4283  1
1220    THE OLIVE TREE APTS
        ACEVES ARMANDO              339-8575  2
        ADAIR JIM                   966-7201  4
        ALGHAMDI SALEM              332-5362 +6
        AUSTIN BARRY                966-5192  4
        BOERSMA KENNETH             331-2932  5
        CAPPUCCILLI CHAS            339-1621 +6
        CARROL JOHN                 966-5441  2
        COHEN CHAS                  331-4029
        CRANE LEWIS                 339-9722  1
        CURTIS LYN                  966-1813  5
        FIOCCA SALVATORE C          331-5435  5
        HENRY WM                    332-5536  3
MAY NOT BE KEYPUNCHED
```

1986 — *SOURCE: HAINES* — **SAN BERNARDINO ROAD - C**



1986

SAN BERNARDINO RD W 91722 CONT..

KHAMESSI SHIRIN 967-2061 5
MILLER CHAS E 332-2843 1
MOHAN WM 966-6873 5
MUNDY PAUL D 332-4535 +6
OFFERMAN HARRY E 915-2307 5
223 *OLIVE TREE APTS 967-7706 8
PRINCE JUDY D 966-4950 5
ROWE MARCUS 966-9847 4
RUSNAK ANTHONY 966-6306 +6
SOTO CARLOS 915-2958 +6
STAFKO ALBERT J 332-9746 5
STARR C M 966-4792 3
STJEAN DOROTHY 331-1018 3
107 TEMPLE JOHN 339-2160 9
TRAN HUAN G 966-8764 5
VENCILL M 332-2221 4
248 WELLER DONALD 331-8081 0
WILLIAMS JEFF 331-3448 +6

1220
1229 XXXX 00
1235 MILLER HUGH V 331-1468
1241 *ALLEN TAX SERVICE 339-4447 9
1247 *CENTURY 21 CITRUS 331-7301
*CENTURY 21 COVINA 331-7301
*CITRUS REALTY 331-7301

1250 APARTMENTS
ALLEN M L 966-2655 2
ALVAREZ JOS 339-0300 1
COMSTOCK FRANCES 339-9786 4
FREY EDWIN F 339-0942 4
GOODWIN RICK 331-9467 3
JANES D S 966-5176 5
24 LLOYD LOIS G 339-4041
MITCHELL GEO 339-6550 +6
MONTANARELLO S 966-1136 +6
MORRIS E 339-2909
OUBER N C 966-6636
SEENEY A 331-5555 +6
STRICKLER LOUIS E 966-1506 5
36 VAUGHN CHAUNCEY W 966-9185
WOODS CARL J 339-7267

1250
1255 *COVINA CHIROPRACTOR 339-3310 +6
*RUSSO JOHN C DC 339-3310
1257 *BECK JEFFREY 331-7391 3
*HARA B DPM 331-7391
*HARA PODIATRISTS 331-7391
1269 *CHIEF AUTO PARTS 967-0584 5
1271 XXXX 00
1274 *LARK ELLEN SHELL 331-2089 5
1275 *SEVEN 11 FD 19251 966-4779 8
1313 XXXX 00
1343 LAS TUNAS GARDENS
ARMSTRONG DOROTHY 967-3482 2
CADY BRUCE 915-1182 4
CONNORS LILLIAN G 966-9927 5
DENKINS CORRENE 966-3702 +6
DRUMMOND BETTY 331-1387
DRUMMOND BRETT 331-1387 +6
FUNDERBURK PEGGY 339-6177 2
HECKETHORN DIANA 967-1627
HECKETHORN JAS 967-1627 +6
KASOW IRVING B 332-3571 2
KIRKWOOD HERBERT 966-8846 4
KOEN KATHERINE 966-2261 2
*LAS TUNAS GARDENS 339-1158 5
LIN CHANG HSUAN 966-7663 4
LUZOD EDWIN 966-9295 4
MARTYN BRUCE S 331-6624 5
MERRY JESSE 339-4822 2
MITCHELL G M 967-9704 2
MOORE LARRY 331-5761 2
MORGAN MIKE 331-7711 0
ROOS JOHN 331-0423 2
RULEY JACK 332-4480 2
SCHULTZ PATTY 331-5079 +6
WALTHERLARSEN OLE 332-0233 +6
WICKS BETTY M 331-7514 2
WILKENFELD F 339-3341 2

1343
1376 APARTMENTS
ALLAN BRIAN 331-6927 4
ARVIZO VALERIE 915-2397 +6
BACA MICHAEL A 332-0363 5
BAILLIE GEO J 339-3158 2
BALOTTA CARLOS 331-3159 4
BORETZ GREGORY R 339-8921 +6
CALDWELL TERRY 966-9700 5
CASA LINDA 331-1403 2
CASHION L 966-2248 2
CHAPLIN RONALD JR 339-2734 5
CHARNLEY FRED 339-9505 5
CHOTIKUL MORAGOT 332-0607 +6
CHOUINARD ROLAND J 339-3725 5
CHUTRAKUL APINYA 915-4394 +6
CISNEROS LEONARD 915-4315 +6
CORWIN CHRIS 331-3924 2
DAVIES LORING 966-0219 5
DEHART JERI 339-5550 5
DEUBLE JOHN L JR 331-8560 +6
GILLESPIE C 331-8990
GILLESPIE J 331-8990 +6
GONZALES KATHRYN 966-5963
GONZALES MICHAEL 966-5963
GRAHL H 331-7805 2
HAMES JAS W 967-5969 2
HAWLEY LOWELL 915-1152 +6
HOPKINSON DIANA 332-2467
HOPKINSON JIM 332-2467
JOHNSON CRAIG 332-5797
JOHNSON J 332-5797 +6
JOHNSON TERRY 331-0392 5
JUAREZ BENITO 339-5277 4
LAGOS FRANCES 339-2626 +6
LERCEL BRIAN J 966-2159 5
LITJEN ROBT 915-3261 4
LOPEZ MICHAEL 967-9180 5
LOVDAHL CHRISTOPHER 331-8747 +6
MASJEDI ABBAS 966-5093 4
MATHIESEN BRIAN 966-1543 5
MAXTON WILBERT 339-4182 4
MORGAN JOHN 332-0453 2
NEGRON ERIC 915-2856 +6
PAYNE MARTHA 339-0384 2
PEREZ DAVID 966-2075 +6
RICHARDS DAVID A 332-9743 +6
RODAS LEONOR 339-0444 4
SLAWENWHITE SHAWN 332-8818 5
SPROUL DONALD G 966-3335 5
SUNDARAM SHANMUGA 967-3195 +6
THOMAS KERRY 339-3861 3
TROHA RUDOLPH F 915-1230 3
UMANAH MAURICE 966-6015 2
VANBEERS KLAAS 967-6144 3
WALDEN R 332-2107 +6
WILLIAMS KURT 339-8441 5
WILLIAMS V 332-9764 +6

1375
1409 MCCORD D B SR 339-7233 5
SALAS FERDINAND 332-7087 5
TRENKMAN LAURIE 967-1352 +5
WOOLF JAMIE 331-5279 +6
1413 BAILEY REBECCA B 967-3204 5
MEYERS C J 331-5159 1
1415 XXXX 00
1417 FINN JOHN 332-8043 1
1419 KELLY LYNDA 967-9820
KNOTT LAURIE 967-9820 +6
ROBERTS JAS R 331-1440 2
ROCCO DANL 966-0790 3
RUSSI BARTELLO 966-0391 4
RUSSI LINDA 966-0391
1423 CARR JOHN P 332-0701 1
FUKUSHIMA L J 331-9621 4
SWANBERG PETER H 331-2636 1

1986

SAN BERNARDINO RD W 91722 CONT..

1425 XXXX 00
1427 BYRNE W L 915-3243 4
MARGOLIN TIFFANY 332-3523 +6
MARINO GAETANO TOM 967-2068 +6
1429 BRIM GEO 966-7214 4
GRIMES WM 331-0306 +6
LECHTENBERG I O 331-4751 4
NOWACKI JEANNIE 339-6837 4
1431 XXXX 00
1433 MONTOYA KATHRYN 339-6855 5
1435 BARON ELLIS D 331-1568 5
HENDERSON BRIAN R 967-6916 5
RIEGER RAYMOND 332-1075 5
1550 *TSOKAS P CO 332-8020 +6
1566 *C W OVERSEAS CORP 332-9387 3
1568 *ASSOCTD CARPET SERV 332-9847 +6
*RAAB DIVERSIFIED 331-7426 +6
* 131 BUS 293 RES 89 NEW

SAN BERNARDINO RD W
91790 WEST COVINA

1513 WEST COVINA APTS
BONK LEONARD 338-7900 3
DEANGELIS FRED B 337-2134
10A HOLGUIN ANN 962-7658
KENNEY LUS S 962-2135 5
KINZIE DIANA RAE 338-9300 5
OCAMPO CARLOS 337-3202 3
PARK CHONG MIN 337-7601 2
ROBLES EDGAR 962-7355 1
RUBIN MARVIN 962-2238 +6
SOLOMAN REKHA R 337-2357 +6
100 *WEST COV APARTMENTS 338-3418
WHITESIDE GARTH 962-1664 5
WOJNAROWSKI MARIE 960-7234 +6
WORMAN DORIS 962-4330

1513
1517 HILLE EILEEN 337-9875 +6
HUTHMACHER NED A 337-0509
1521 PARK CHONG K 338-0654 1
THOMPSON C 338-0327 +6
WRIGHT WM 338-5613 +6
1525 LOWERY PAMELA 338-6617 +6
1527 XXXX 00
1529 APARTMENTS
BAUGH JAS 960-2694 2
CANALES ABEL 337-8659 +6
HAN MYUNG DONG 960-0791 +6
HUBBARD CHERYL 960-0769 +6
MICKS R M 338-1925 5
PAULIK MARCELO 814-2905 +6
SAWYER THELMA L 960-1484 +6
URIBE VICTOR 962-9607 +6
VANDERLINDEN GLEN 337-3836 +6

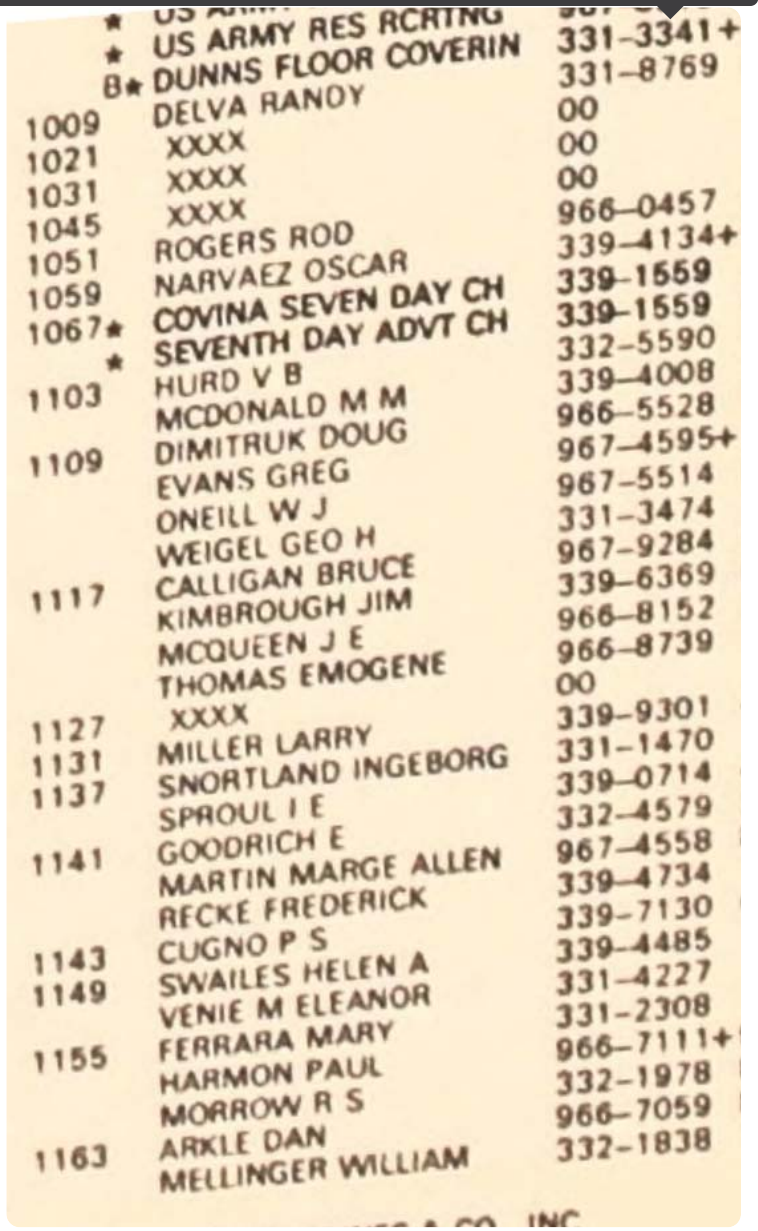
1529
1530 *LISAS COFFEE SHOP 339-2014 1
1533 APARTMENTS
KIM CHONG 338-6238 5
LOPEZ SOLEDAD 338-1564 5
MARTIN DOLORES 962-3989 +6
POPE LATANYA 337-0782 +6
SANKO MARY 337-7933 +6
SMITHWILLIAMS DONNA 960-1156 +6
WILLIAMS SOPHIA 960-0087 5

1533
1537 BERRY KENNETH 814-3011 +6
MONTES MARION 814-3011 +6
SPIGELMIRE JOHN 960-8893 5
1540 *ACADEMY SIGNS 966-8016
1541 KIM THAEK I L 960-0116 5
MORAN MARIA 962-6347 +6
PERRIN JAS 337-5881 5
SMITH STUART 962-7958 +6
1545 HENDRICKS RICHARD 337-9874 +6
KING STEPHEN B 337-3771 5
SANTILLAN C 337-5181 3
1549 APARTMENTS
BRENNER MARY 338-6640 5
DAVIS CINDA 337-1607 +6
DESPET MARIA 814-2584 +6
EATON BETTY 337-0591 6
LEE HI JOONG 338-3028 5
MANGILIT MANUEL S 338-3614 +6
NEWTON RAKESH D 962-4704 +6
1L REEVES GEO W 337-7542
THOMAS A L 960-8761 6

1549
1550 *TONYS FAMILY REST 331-5543 9
1554 *BUDS MUFFLER SHOP 967-4511 2
1566 XXXX 00
1568 *DIVERSIFIED BUILDER 915-2018 4
1570 *COVINA INDUSTRL PK 332-9723 0
1576 *INTL IRRIGATION INC 339-0776 2
1578 *BECK CHRIS 967-2871 1
*HARRIS RUTH PAINTNG 966-8653 8
*METAL RECOVERY CO 967-2871 2
*P S A DRYWALL CO 966-3531 1
A *COVINA SCREEN&PATIO 331-9510 8
C *RAECO PRECISION 331-5351 3
F *HOUSE OF METAL ENGR 331-5539 9
1580 *ACCURATE MODEL CO 966-7800 0
*BILLS PREC GRINDING 331-6522 5
*E Z FLO NOZZLE CO 967-6284
*G&M PRECISION 966-6289 8
*LYNDS ELECTRIC 331-1263 3
*WILKINSON CO 331-3014 5
D *DIAMOND E D WIRE 339-3716 0
M *LUFFMAN ELEC MOTOR 332-0369 9
1600 *WEBER MILLSRK BAKER 339-4519
1611 *BILLS AUTO BODY 338-8612 1
*BLACKARDS TOWING 338-8426
1623 *PICKS BUILDING MTRL 338-1171
1631 FOSTER ANN 962-2341
FOSTER DEAN 962-2341
1635 *DROPS LAB AUTO BODY 915-3344 3
*LABS AUTO TECH 331-7219 5
1641 *SOCIETY CLEANERS 332-9191
1643 *ALTA DNA DAIRY WCOV 962-9178 1
1647 *H&R DYNO&ATMTV SVC 967-1313
1656 *SCHEIB EARL PT SHP 966-4444
1661 *LOBBYS MEXICAN FMLY 332-9104
1665 *JOHNNYS LO&DELI 332-3818
1680 *VINCENT ARCO 967-8050 1
1681 *BURGER KING 915-5439 +6
1710 XXXX 00
1723 *EGGS WEST 960-5331 2
*GROSS EGG RANCH 338-5594 +6
*SUN FRESH 337-0111 +6
1731 XXXX 00
1733 EHRBAR ROBETTE 962-3835 +6
*R K KENNEL 960-9463 +6
SEGURA KATHIE 962-3835 +6
1741 *CANIS MEA KENNELS 337-6312
*MEA CANIS KENNELS 337-6312
1807 *CITY REFUSE SERVICE 962-4031
*WEST COV DISPSL CO 962-4031
1823 *BROWN SIDNEY DVM 337-2023 3
*GREENBAUM L S DVM 337-2023
*MORGAN ANDREA DVM 337-2023 +6
*WEST COV PET HOSP 337-2023
1827 *CHASE ATMTV DYNO SV 337-4826 +6
1907 *BOB LOWRY&SON AUTO 337-4826 +6
*LOWRY BOB AUTO BODY 337-4826 +6
1915 *KEG LIQUOR 337-1113 8
1921 *WEST COV AUTO BODY 962-8311 5
1927 *SANITATION LA CO 962-5605
1931 *STAR MERCEDES 960-5439 4
*STAR MOTORS 960-5439
2009 *CONCORDE BATTERY 962-4006 1
2106 *THE NORTH PORTY 962-9150 9
2107 *A R GRAY CONSTRCTN 960-2752
*GRAY AL R 960-2752

TO A COMPUTER OR PHOTOCOPIED, IN ANY MANNER WHATSOEVER EXCEPT AS AUTHORIZED IN WRITING BY

1979 — *SOURCE: HAINES* — **BADILLO STREET - A**



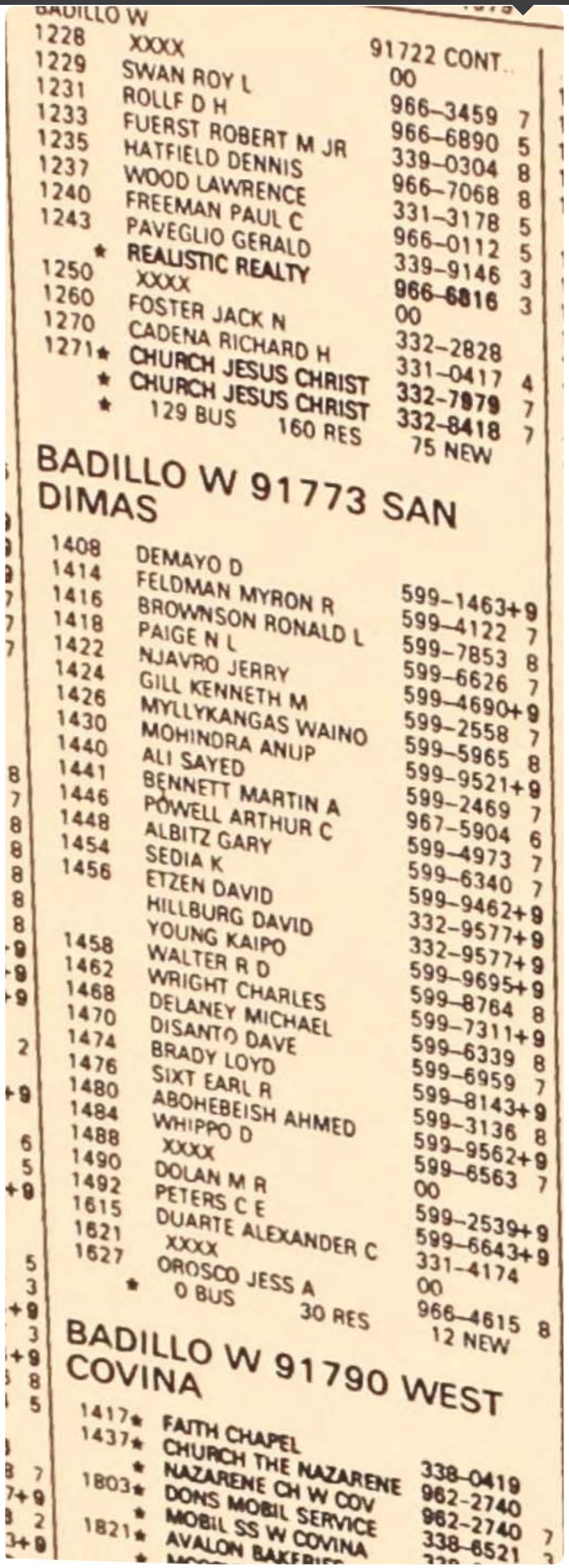
1979

★ US ARMY RES RCRTNG 331-3341+
★ US ARMY RES RCRTNG 331-8769
8★ DUNNS FLOOR COVERIN
1009 DELVA RANDY 00
1021 XXXX 00
1031 XXXX 00
1045 XXXX 966-0457
1051 ROGERS ROD 339-4134+
1059 NARVAEZ OSCAR 339-1559
1067★ COVINA SEVEN DAY CH 339-1559
★ SEVENTH DAY ADVT CH 332-5590
1103 HURD V B 339-4008
MCDONALD M M 966-5528
1109 DIMITRUK DOUG 967-4595+
EVANS GREG 967-5514
ONEILL W J 331-3474
WEIGEL GEO H 967-9284
1117 CALLIGAN BRUCE 339-6369
KIMBROUGH JIM 966-8152
MCQUEEN J E 966-8739
THOMAS EMOGENE 00
1127 XXXX 339-9301
1131 MILLER LARRY 331-1470
1137 SNORTLAND INGEBORG 339-0714
SPROUL I E 332-4579
GOODRICH E 967-4558
1141 MARTIN MARGE ALLEN 339-4734
RECKE FREDERICK 339-7130
CUGNO P S 339-4485
1143 SWAILES HELEN A 331-4227
1149 VENIE M ELEANOR 331-2308
FERRARA MARY 966-7111+
1155 HARMON PAUL 332-1978
MORROW R S 966-7059
ARKLE DAN 332-1838
1163 MELLINGER WILLIAM

BADILLO E

	SWENSON A E	91724 CONT.	
	VELA LINDA M	966-1520	4
1167	ASHABRANER OLIVE M	331-6267	8
	GARCIA ANNA H	966-0358+	9
	KNISLEY WILMA M	331-1090	
	MIRACLE VERNE V	331-0358	5
1175	BELL W	339-6994	
	JACK KATHRYN	966-8024	4
	KOLCHINER BEN	332-9887	
	KSEN BOB	332-4794	4
1181	FIELDS D L	332-5304+	9
	SMITH RETTA	339-5508+	9
	SNOW LORENA M	331-2777	5
1203	COHEN S	966-2988	
1209	WOOD E E	967-6067+	9
	YOUNKER S	339-3704	8
1215	PROUGH M	332-2593	
1221	BURKE RALPH M	339-3047	6
	MILLARD GUY A	339-3733+	9
	MITCHELL MERLE	331-1448	8
1229	FOSTER J M	331-7577	7
	KIMBELL PATRICIA	339-8346+	9
	STRONG C L	966-7348	7
1235	DAVIS T D	966-3343	6
	OWENS DEL L	967-4585	8
	REEVES ALICE L	966-7924	3
1243	XXXX	332-6763	
1247	BARTON B J	00	
	BISHOP HARRY	967-0218	8
	CRAIG E B	339-4431	6
	NORMAN GWENTHEA	966-9524	
1255	CANTWELL BEA	332-6065	6
	PETERSON DENNIS	331-3739	
	STROM LORRAINE	967-0394+	9
1261	HAMILTON WILLIAM M	967-1101	7
	MUELLER HEIDI	966-1985	8
	SWAIN MIKE	966-5578+	9
1269	DEKOCKKOEK W D	339-7462+	9
	KELLEY THEA E	966-5041+	9
	LUIZZI NICK	332-9562	6
	SANCHEZ CELO	332-0915	6
1275	HORMELL EDEL	967-9071	8
1308	ARMIJO FRANK R	332-9544+	9
1314	XXXX	966-8244	8
1322	GONZALES MANUEL J	00	
1356	ROTH GEORGE	331-1225+	9
1360	STRATMAN VICTOR	966-2595	8
*	TIKI REALTY	339-3064	8
1375	XXXX	332-2643	8
1380	SCHUSTER MARK A	00	
1384	ERKEL NFIL	967-2635	8
1440	XXXX	966-9093	8
1450	BRUTOCAO RICARDO G	00	
1460	JAGGER DONALD R	332-2273	7
1480	FAGATT ROBT	966-0172	
1504	XXXX	332-7373	
1514	FINCH MORRIS P	00	

	JO ELEN DRAPERIES	331-1209+	9
1004	CANFIELD CARL L	332-0444	8
1014	XXXX	339-5624	
1032	CHALAIS TOM C	00	
1065*	RADIO SHACK COVINA	339-1042	
1082	XXXX	966-2270	6
1085*	NATL LIFE INS COV	00	
1103*	MONTESSRI PRN&PRNCS	966-1759	2
*	PRINCE&PRINCESS SC	332-3881	
1108	XXXX	332-3881	6
1109	XXXX	00	
1111*	DIAL A PRYR UNTY CH	00	
1117	XXXX	339-6620	
1121	ORONA GILBERT	00	
1123	MIRELES RUDY	967-0193+	9
1127	MANNING LARRY	966-6582+	9
1129	XXXX	332-3127+	9
1131	CEDAR RIDGE TWNHSES	00	
	DUFF B P		
	JAMES L	967-1934	6
	LESLIE S L	339-6516+	9
	SABATINI FRANK	967-0132+	9
1131		332-2143	6
1135	DEUEL T R		
	GLASS DAVID	967-0134	8
	JACOBS AL	332-2489	9
	REYES HELENA	339-0010	7
1139	AMARL WM	332-8553	6
	LOPEZ ALIRO	967-6627+	9
1141	XXXX	332-5925	6
1143	BISHOP ROBT	00	
*	DAUPHIN ENTERPRISES	967-1035	
	FAIRES JERRY	339-7280	
1147			



BADILLO W

1228 XXXX 91722 CONT
1229 SWAN ROY L 00
1231 ROLLF D H 966-3459 7
1233 FUERST ROBERT M JR 966-6890 5
1235 HATFIELD DENNIS 339-0304 8
1237 WOOD LAWRENCE 966-7068 8
1240 FREEMAN PAUL C 331-3178 5
1243 PAVEGLIO GERALD 966-0112 5
★ REALISTIC REALTY 339-9146 3
1250 XXXX 966-6816 3
1260 FOSTER JACK N 00
1270 CADENA RICHARD H 332-2828
1271★ CHURCH JESUS CHRIST 331-0417 4
★ CHURCH JESUS CHRIST 332-7979 7
★ 129 BUS 160 RES 332-8418 7
75 NEW

BADILLO W 91773 SAN DIMAS

1408 DEMAYO D 599-1463+9
1414 FELDMAN MYRON R 599-4122 7
1416 BROWNSON RONALD L 599-7853 8
1418 PAIGE N L 599-6626 7
1422 NJAVRO JERRY 599-4690+9
1424 GILL KENNETH M 599-2558 7
1426 MYLLYKANGAS WAINO 599-5965 8
1430 MOHINDRA ANUP 599-9521+9
1440 ALI SAYED 599-2469 7
1441 BENNETT MARTIN A 967-5904 6
1446 POWELL ARTHUR C 599-4973 7
1448 ALBITZ GARY 599-6340 7
1454 SEDIA K 599-9462+9
1456 ETZEN DAVID 332-9577+9
HILLBURG DAVID 599-9695+9
YOUNG KAIPO 599-8764 8
1458 WALTER R D 599-7311+9
1462 WRIGHT CHARLES 599-6339 8
1468 DELANEY MICHAEL 599-6959 7
1470 DISANTO DAVE 599-8143+9
1474 BRADY LOYD 599-3136 8
1476 SIXT EARL R 599-9562+9
1480 ABOHEBEISH AHMED 599-6563 7
1484 WHIPPO D 00
1488 XXXX 599-2539+9
1490 DOLAN M R 599-6643+9
1492 PETERS C E 331-4174
1615 DUARTE ALEXANDER C 00
1621 XXXX 966-4615 8
1627 OROSCO JESS A 12 NEW
★ 0 BUS 30 RES

BADILLO W 91790 WEST COVINA

1417★ FAITH CHAPEL 338-0419
1437★ CHURCH THE NAZARENE 962-2740
★ NAZARENE CH W COV 962-2740
1803★ DONS MOBIL SERVICE 338-6521 7
★ MOBIL SS W COVINA
1821★ AVALON BAKERIES



WEST COVINA

1170 HOLLWIG K 332-3396 6
1200★ HONEYWELL INC 331-0011+9
1220 XXXX 00
1350 LARK ELLEN TOWERS
CROOK GEORGE W 339-0798
11 HEATH EVELINE W 967-5896+
108★ LARK ELLEN TOWERS 966-7561
108★ LARK ELLEN TWR HOSP 966-7558
MARTIN H B 331-2410
1350 SILVER ETHEL R 331-4114

999★ WOOS CHINESE KITCHN 331-621
1010★ BUILDERS EMPORIUM 331-7381
1011★ ELDON DRAPERY CLNRS 966-8447
★ SEARS ROEBCK CLNG 331-0911
★ SPARKLE CLNRS 966-5131
1017★ YAMAHA OF COVINA 599-6942+
★ YAMAHA OF COVINA 332-6249
1019★ COVINA OFC MACHINES 967-2834
1025★ CCR CORPORATION 332-5330+
★ CCR CORPORATION 967-2834+
1035★ STORTZ FLOOR COVRNG 331-0868
1039★ NAUGLES RESTAURANT 332-2133
1055★ BLACK PAUL R 967-3781
★ CLARK WILLIAM F 967-3781
★ DENNIS JOHN A 967-3781
★ SEYMOUR THOS F 967-3781
★ SWENSON&CLARK 967-3781
1060★ BRUTOCO DEVELPMNT 339-1286
★ COVINA BOWL 339-1286
★ MESSANG CO REAL EST 967-7331
1062★ HELENS AT COVINA BO 331-3010+9
1069★ CAPTAINS SEAFD GLRY 331-2411+9
1102 XXXX 00
1104 FELTMAN WILBERT W 339-5264 8
1108 MCGUIRE EDGAR 331-4455+9
1112 BENNETT J M 332-0382 4
1114★ YEE SOONS CHNS CSNE 339-9200 4
1130 APARTMENTS
02 AZOUS ROBT 966-5754 4
BALDRIDGE KENNETH 966-5669+9
BIRD KEN 966-0170+9
BIRD KEN 966-2488+9
01 BOWMAN DANL A 331-1349 6
16 BURCH RAYMOND 339-3344 4
CHAVEZ ALFRED JR 332-1864+9
DYKMAN NICOLAAS 966-4653+9
GHANNADI M 331-4107+9
GREEN LANNY E 967-7630 8
GUILD MARY S 966-7638+9
HIGGINS MARIAN 331-3091 8
JOU JENG SHENG 332-3490+9
KLINE REED 966-7638+9
LATIFIAN R 966-4378+9
LUCE RUTH A 967-9175+9
MARTIN L 331-7579+9
30 MCDONALD A S 331-4751 4
MCMANIS CHAS 339-0129+9
MORGAN M K 966-9103+9
207 OGLES E 332-5546 7
OSHNER TARY 967-9857+9
RILEY JAS 332-4392+9
07 ROBB WALLY 967-4741 5
SADEGHI YAZDAN 339-2972+9
31 WALKER M FRANCIS 967-3249 6
WONG ERIC 331-7141+9
WRIGHT EDNA 967-0385+9
1130
1131★ RODRIGUEZ H DR DC 967-7908+9
1139★ LASFLORES ESCROW CO 331-8236 6
★ MBL HOME RESALE 967-3946+9
1145★ GILBERT JOHN J 966-1211 3
1151★ IMONDI GUY S 967-4297+9
★ STATE FARM INS CO 967-4297+9
1170 APARTMENTS
11 BOOTH DENISE 332-1525 5
BRANTLEY MIKE 331-9767+9
BUTLER BOBBY E 339-0453+9
CAMERENA MAURICE C 967-1215 8
CARSON B 966-3075+9
COLE L J 339-4116+9
CONIGLIO DONALD 967-6688 8
CORETTI DAVID 331-6935 7
CORETTI ROBERT J 331-6935 8
01 DUNDON LESLIE 331-1388 2
30 DWYER THOS M 966-8734 6
DYER JOHN 339-5631+9
EARHART ERWIN D 967-1693 8
ENGLISH FRED C 332-2739+9
GONZALEZ CONRAD JR 332-7849 8

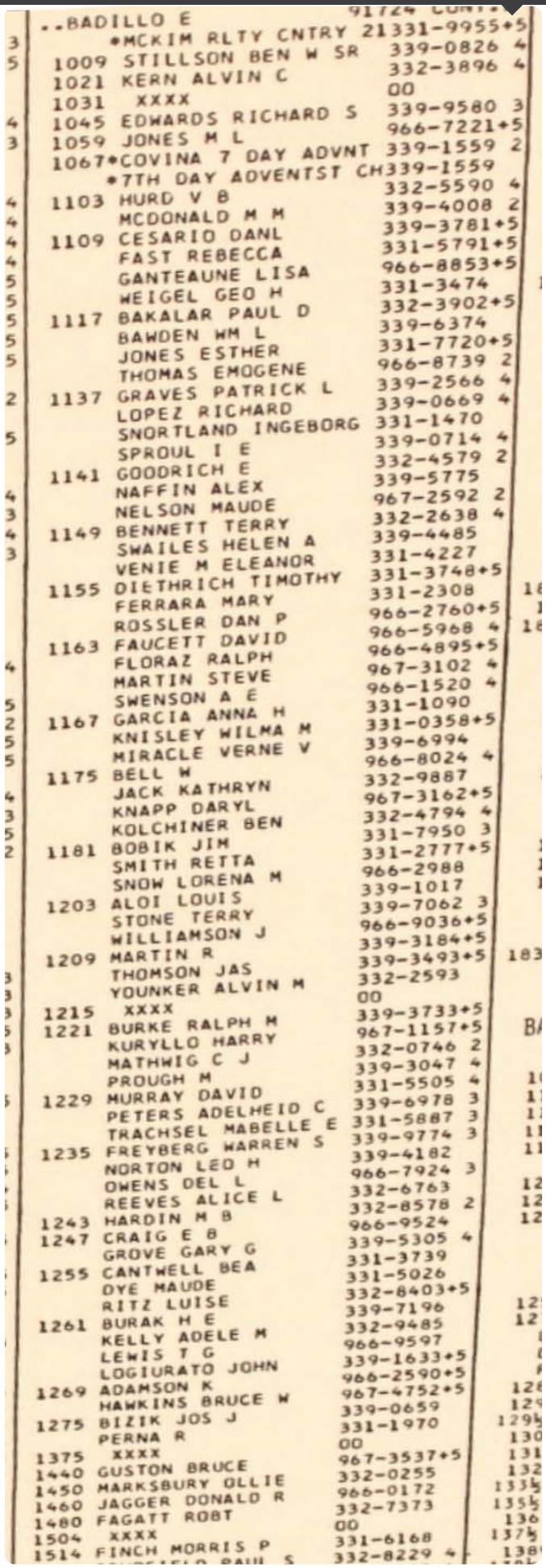
SAN BERNARDINO RD W 91722 CONT
JEIROUDI SAAD M 967-6979 8
JOHNSON BRADLEY 331-2523 8
JOHNSON HARLEY 331-7435+9
KAMRATH GARY 966-8267+9
KOSIN JOHN 280-4153+9
LAMBERT L 331-1478+9
LEVINE WM 331-2469 6
33 LLCAS BRIAN 332-3816 7
232 MCFADDEN LEE 966-7191+9
MEZA JORGE 332-0170+9
MICKELS HARRY J 966-2174+9
MILLER GARY 967-8664+9
MOUSAVI JALAL 331-4192+9
OHAGAN DANL 339-5974+9
PETRY CATHERINE 967-5632+9
RICKERT ROBERT E 331-8192 6
132 ROBERTS STEVE 332-0607 8
ROBLES HENRY 966-3104+9
SEWELL G ALLEN 339-4850+9
SOMMERS CALVIN C 339-5292 4
47 STONER J 967-1620+9
TERLECKY GREG J 966-9069+9
17 TOTH JULIUS 966-1470 2
22 TROMBLEY LAWRENCE 339-5635 4
WANG SHENY 332-2173 8
WITTE KLAUS 339-1586+9
1170 STOCKSDALE JOHN E 967-1729 8
1200 GARY REBECCA 339-0914 8
1205 HUNT JOSEPH 967-3504 7
MCMILLAN G E 339-0914 8
1220 THE OLIVE TREE APTS
ACEVES ARMANDO 339-8575 8
ANNUNZIATA PAT J 339-2381 3
06 BALDWIN THOMAS 966-6065+9
BALLINGER CHARLES 966-8213 8
BEARMAN M D 966-5918+9
BERGEY K 331-0423 8
BOTTEGONI CARLO 966-2968+9
BRISLEY GEO 966-2216+9
CAMP JOYCE ELAINE 332-2936 8
COHEN CHAS 331-4029 4
02 DANIELSON CHARLIE 966-9728+9
DAWSON M E 332-4474+9
DEREMER MIKE 966-5802 8
DIAMOND ALAN 967-5044+9
DODD M 332-1871 8
DUNLEAVY E J 331-8081+9
DUNN NATHANIEL 967-0220+9
EVANS RICHARD 967-3115 8
FIOCCA SALVATORE 967-4870+9
GUERTIN MARGUERITE 966-3090 8
HENRY WM 332-3536+9
HOLLMANN GERTRUDE 339-6397 5
216 JONES JAS A 967-5683+9
KAISER R 331-6790+9
KALIKMAN MILTON 966-3325+9
KORMOS K 332-1585 5
02 KRAFT JENNY 966-8736+9
LASKOTI MIKE 331-2620 8
LOWE ADOLPH 339-3322+9
MENDOZA STEVE 339-5570 8
MURPHY B 966-5764+9
OFFERMAN HARRY E 966-5114 8
★ OLIVE TREE APARTMNT 967-7706 8
ROLLENS E A 331-5469+9
RUNNING CLARENCE 967-7023 7
126 SCHMIDT ROY C 331-7568 7
251 SHERMAN RICHARD 967-4775 8
SMITH C 967-7277+9
SULLENGER L 339-8179+9
TEMPLE JOHN 339-2160+9
THOMPSON HARRY E 966-7966 3
31 TIMM K S 339-0396+9
UGARTE VERONICA 331-4294+9
WINTER P H 331-4328 8
WITT ERIC 966-5802 8
WOBBEMA CHRISTI 966-2722+9
WOODFIELD K A 339-7839+9
1220 MILLER HUGH V 331-1468 5
1235 ★ ALLEN TAX SERV 339-4447+9
1241★ LIRES STEVEN 967-0253 8
1241½ ★ CENTURY 21 CITRUS R 331-7301+9
1247★ ★ CENTURY 21 COVINA 331-7301 8
★ CITRUS REALTY 331-7301
1250 APARTMENTS
7 BLATT GUSSIE 966-2657 5
BRAMAN D I 332-1887+9
FARIS M E 967-5586 6
30 FREESON GERTRUDE 339-0256 7
26 FRIEDBERG IRVING 332-7128 5
28 GASPAR GREGORY 331-4708 7
10 GLUESING KARL 331-7019+9
GRACE OWEN 332-1722 8
GRESCO ROGER 966-8255 7
8 JENSEN E C 966-4364 3
11 LASCHOBER JOHN J 339-4862 2
21 LEYERLY J L 967-1961 8
LLOYD LOIS G 339-4041 3
24 MORRIS E 339-2909 4
23 OLIBER N C 966-6636 3
31 STIEVO KEITH F 966-9942 8
THOMSON R A 967-8780+9
TIMMONS JEFFREY 967-0230+9
VAUGHN CHAUNCEY W 966-9185 2
WATSON PHYLLIS 332-0192+9
36 WOLFNER K C 339-0095 5
43 WOODS CARL J 339-7267
40 339-3310 7
1250 331-7391 8
1255★ RUSSO JOHN DC 331-7391+9
1257★ HARA B DSC 967-1445 8
★ ROTELLA JAMES 966-7166+9
FONZERELLI PIZZA 331-9247+9
1269★ APPYS AUTO PART&SPL 966-4779 8
1271★ PETERSON SHELL 339-3905 4
1274★ SEVEN 11 FD WST COV 339-2014 2
1275★ FRANKS TEXACO 331-5543+9
1313★ A&L COFFEE SHOP 966-5815 2
1530★ TONYS BURGERS 966-5815 2
1550★ DENNIS MUFFLERS 00
1554★ MUFFLERS BY DENIS XXXX 332-9723+9
1568 COVINA IND PARK 966-8853 8
1574★ HARRIS RUTH PAINTNG 966-7622+9
1578★ PATTERSON JOSEPH A 332-8253+9
★ SUNSET PATIO&AWNING 331-9510 2
★ COVINA SCREEN PATIO 967-8261+9
A★ ORG LGHTG CONCEPTS 331-5839+9
D★ HOUSE OF MTL ENGNRN 331-5839+9
F★ BUILDING
1580 AIM TO SATISFY JANT 966-5313+9
★ BECK CHRIS 967-2871 7
★ BRAND ENGINEERING 967-5127+9
★ DEPENDABLE ACOUSTCS 966-0012 8
★ DEPENDABLE ACSTCS 599-7421+9
★ E Z FLO NOZZLE EXCH 599-2078+9
★ E Z FLO NOZZLE EXCH 967-6284 8
★ EXPORTRONIX 332-8733 8
★ G M PRECISION 966-8289 8
★ IKES CARPET COMPANY 966-9933 6
★ LEHRKE ENGINEERING 967-5644 6
★ M J C MOLDS 967-4548 6
★ MARANATHA PAINTING 332-8288+9
★ METAL RECOVERY CO 967-2871 7

SAN BERNARDINO RD W 91722 CONT
★ R E AIRE 962-5578
★ SANTOYOS CARPET 332-4345
★ M★LUFFMANS ELEC MOTOR 332-0369+
1580
1600★ WEBERS BREAD COVINA 339-4519
1611 XXXX 00
★ 151 BUS 203 RES 149 NEW

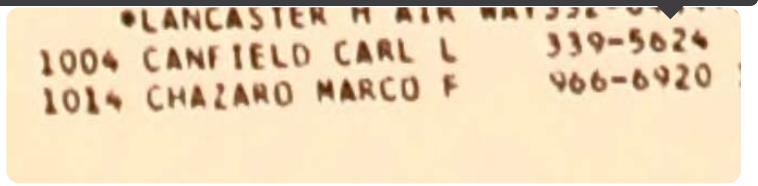
SAN BERNARDINO RD W
91790 WEST COVINA

1513 WEST COVINA APTS
00 DEANGELIS FRED B 337-2134 4
10G GRAY JAMES S 338-3197 4
10A HOLGUIN ANN 962-7658 5
LANGLEY TERRY 337-0219 8
MCCLISTER K 338-4772+9
RIDLON S 962-7364 8
01 RUBIN MARVIN 962-2238 4
SANFORD L M 338-4825+9
108 SKULAVIK THERESA 962-2706 7
10F SULZER JOHN E 338-3613 7
TIPTON ROBIN 960-2641 8
ULRICH KATHY 338-7971+9
100★ WEST COV APARTMENTS 338-3418 5
10W WORMAN DORIS 962-4330 7
1513 338-9425 5
1517 HILLE EILEEN 337-0509 7
HUTHMACHER NED A 338-9468+9
SIMMONS GEO H 962-2840+9
SWAIN ETHEL F
1521 APARTMENTS
18 BRUMMETT EVA G 337-5437 3
FRECHETTE R 337-3654+9
8D LARKING ROBERT 338-1031 6
MARINEAU MARIE 962-8262+9
MCKAY BENJAMIN 960-4460+9
8D ROBLES V 337-4536 5
WASHINGTON MICHAEL 338-9323+9
1521
1525 APARTMENTS
7N KINZIE DIANA RAE 338-9300 2
LEXA JUDITH 337-9892+9
MERCURIE MICHAEL L 337-1811+9
MORTENSON JESS 962-7394+9
NICKLAW M H 962-1289 8
VALENZUELA GARY 337-7792 8
1525
1529 APARTMENTS
6D BALDWIN K 962-2054 7
BOYD DEBORAH 962-6253 8
BUFANO MARCETTA 962-5341+9
CAMERON DENNIS 337-6143 8
PARCELLS ALFRED JR 962-0357 8
6E QUILES ROBERT I 337-1641 7
6X SANCHEZ MARGARET 962-1159 7
SHOBE A 338-1708 8
TUBA JAMES E 338-7523 8
1529
1533 APARTMENTS
5J BEELER MARY 962-5248 8
DICKSON JOHN F 338-7976 7
ESTRADA E S 337-6803+9
GORRELL N R 338-6561+9
LUNDIN KELLEY 337-1355+9
LUNDIN KIMBERLY 337-1355+9
REYES RUDOLPH 338-2035 8
SANCHEZ MICHAEL 960-1573 6
5C SANKO STANLEY 962-0301
5B SCHMIDT R E 960-2189 5
5W TAGGART E D 338-4644 8
WILSON DIXIE 962-0194+9
1533
1537 APARTMENTS
LAWRENCE C 338-2616+9
4L MILLER JOHN R 962-4646 6
SPIGELMIRE RALPH 962-5991 8
4K SZUDER SHARON 338-2269 5
4O TERRY MARIE V 962-6035 6
1537 966-8016 7
1540★ ACADEMY SIGNS
1541 APARTMENTS 338-7743 7
3G CANTU RUBEN 337-9935+9
DUFF TIRRELL 338-5830+9
ELSKAMP ALLAN 337-6472 6
HART RUTH C 337-8240+9
3C KEMP STAN 962-0981+9
LALONDE LYNN 962-4535+9
MCCAMON MILDRED 338-4872 8
MONTEE D 337-0742 8
POWELL J
1541
1545 APARTMENTS 962-9776 8
CONLEE P 960-4570+9
DAY DONALD 338-1923 7
JACKSON KINSEY LEE 962-6059 8
2J MASSEY CHARLES 338-5966 8
URMANSKI ROY 962-6504+9
WILLIAMS JAS E
1545
1549 APARTMENTS 337-1717+9
BLEICHER ANNA 337-0591 8
EATON BETTY 337-2319 7
GABLE ROBERT H 338-5947 8
1K KIM DONGIL 962-9768 7
KRISOR THOMAS 337-1111 8
1J MACK THOMAS 962-9881 8
POPPE CARL J 337-7542 4
REEVES GEO W 337-0921 5
1L ROSE JOS A 337-6989+9
1V RUELAS DAVID 962-2348 4
SANDERS CHARLENE 962-0881+9
1P THOMAS A L 337-1521+9
YOUNG P
1549
1611★ BILLS AUTO BODY 338-6812 3
★ BLACKARDS SUPER SV 338-8426
1623★ PICKS BLDG MATERIAL 338-1171 5
1631 FOSTER ANN 962-2341
FOSTER DEAN 962-2341
★ GROSS EGG RANCH 338-5594 7
★ SANGER'S VLY EGG FRM 962-6939 5
★ HAROLDS TRNSMSN SRV 962-3013+9
1635★ HARRELLS TRNSMSN SV 966-3013
★ SOCIETY CLEANERS 962-9191
1641★ ALTA DENA DAIRY 962-9178 5
1643★ H&R DYNO SERVICE 967-1313
1647★ SCHEIB EARL 960-4444 7
1656★ LOBBYS MEXICAN REST 332-9104
1661★ JOHNNYS DRV IN LOUR 332-3818
1665★ MACKS ARCO 332-5243 7
1680★ WEEKLYS CHEVRON SRV 331-9022
1681★ SUPER SEVEN 962-9108
1710★ NISSEI ELI 337-3549
1731 GAYHURST KENNELS 337-5738
1733★ REPRINT LOUISE 337-5738 4
★ CANIS MEA KENNELS 337-6312 7
1741★ MEA CANIS KENNELS 337-6312
★ CITY REFUSE SERVICE 962-4031 5
1807★ WEST COV DISPOSAL 962-4031
★ GREENBAUM L S DVM 337-2023 4
1823★ KLAGES SUSAN DVM 337-2023 7
★ VANCISE THOS DVM 337-2023 5
★ WEST COV PET HSPTL 337-2023 5

OR PHOTOCOPIED IN ANY MANNER WHATSOEVER EXCEPT AS AUTHORIZED IN WRITING

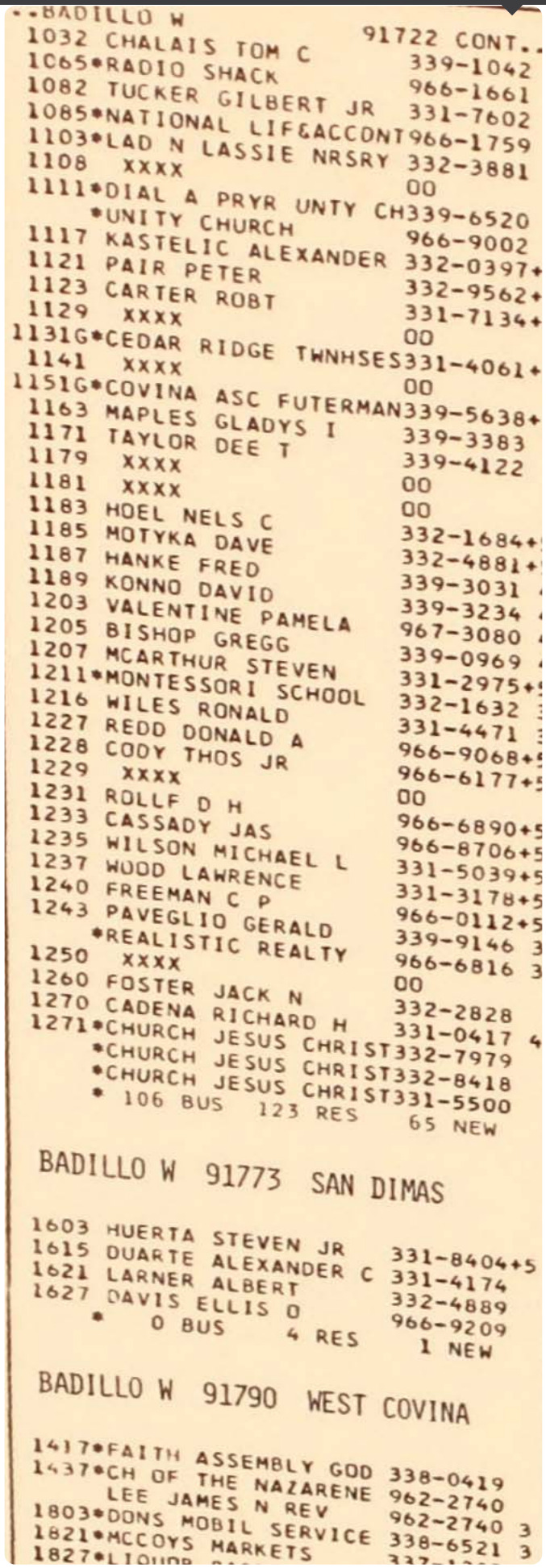


..BADILLO E
*MCKIM RLTY CNTRY 21331-9955+5
1009 STILLSON BEN W SR 339-0826 4
1021 KERN ALVIN C 332-3896 4
1031 XXXX 00
1045 EDWARDS RICHARD S 339-9580 3
1059 JONES M L 966-7221+5
1067*COVINA 7 DAY ADVNT 339-1559 2
*7TH DAY ADVENTST CH339-1559
1103 HURD V B 332-5590 4
MCDONALD M M 339-4008 2
1109 CESARIO DANL 339-3781+5
FAST REBECCA 331-5791+5
GANTEAUNE LISA 966-8853+5
WEIGEL GEO H 331-3474
1117 BAKALAR PAUL D 332-3902+5
BAWDEN WM L 339-6374
JONES ESTHER 331-7720+5
THOMAS EMOGENE 966-8739 2
1137 GRAVES PATRICK L 339-2566 4
LOPEZ RICHARD 339-0669 4
SNORTLAND INGEBORG 331-1470
SPROUL I E 339-0714 4
1141 GOODRICH E 332-4579 2
NAFFIN ALEX 339-5775
NELSON MAUDE 967-2592 2
1149 BENNETT TERRY 332-2638 4
SWAILES HELEN A 339-4485
VENIE M ELEANOR 331-4227
1155 DIETHRICH TIMOTHY 331-3748+5
FERRARA MARY 331-2308
ROSSLER DAN P 966-2760+5
1163 FAUCETT DAVID 966-5968 4
FLORAZ RALPH 966-4895+5
MARTIN STEVE 967-3102 4
SWENSON A E 966-1520 4
1167 GARCIA ANNA H 331-1090
KNISLEY WILMA M 331-0358+5
MIRACLE VERNE V 339-6994
1175 BELL W 966-8024 4
JACK KATHRYN 332-9887
KNAPP DARYL 967-3162+5
KOLCHINER BEN 332-4794 4
1181 BOBIK JIM 331-7950 3
SMITH RETTA 331-2777+5
SNOW LORENA M 966-2988
1203 ALOI LOUIS 339-1017
STONE TERRY 339-7062 3
WILLIAMSON J 966-9036+5
1209 MARTIN R 339-3184+5
THOMSON JAS 339-3493+5
YOUNKER ALVIN M 332-2593 00
1215 XXXX 339-3733+5
1221 BURKE RALPH M 967-1157+5
KURYLLO HARRY 332-0746 2
MATHWIG C J 339-3047 4
PROUGH M 331-5505 4
1229 MURRAY DAVID 339-6978 3
PETERS ADELHEID C 331-5887 3
TRACHSEL MABELLE E 339-9774 3
1235 FREYBERG WARREN S 339-4182
NORTON LEO M 966-7924 3
OWENS DEL L 332-6763
REEVES ALICE L 332-8578 2
1243 HARDIN M B 966-9524
1247 CRAIG E B 339-5305 4
GROVE GARY G 331-3739
1255 CANTWELL BEA 331-5026
DYE MAUDE 332-8403+5
RITZ LUISE 339-7196
1261 BURAK H E 332-9485
KELLY ADELE M 966-9597
LEWIS T G 339-1633+5
LOGIURATO JOHN 966-2590+5
1269 ADAMSON K 967-4752+5
HAWKINS BRUCE W 339-0659
1275 BIZIK JOS J 331-1970
PERNA R 00
1375 XXXX 967-3537+5
1440 GUSTON BRUCE 332-0255
1450 MARKSBURY OLLIE 966-0172
1460 JAGGER DONALD R 332-7373
1480 FAGATT ROBT 00
1504 XXXX 331-6168
1514 FINCH MORRIS P 332-8229 4



*LANCASTER H AIR
1004 CANFIELD CARL L 339-5624
1014 CHAZARO MARCO F 966-6920

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com



```
**BADILLO W                          91722 CONT..
1032 CHALAIS TOM C                   339-1042
1065*RADIO SHACK                     966-1661
1082 TUCKER GILBERT JR               331-7602
1085*NATIONAL LIF&ACCONT             966-1759
1103*LAD N LASSIE NRSRY              332-3881
1108   XXXX                          00
1111*DIAL A PRYR UNTY CH             339-6520
     *UNITY CHURCH                   966-9002
1117 KASTELIC ALEXANDER              332-0397+
1121 PAIR PETER                      332-9562+
1123 CARTER ROBT                     331-7134+
1129   XXXX                          00
1131G*CEDAR RIDGE TWNHSES            331-4061+
1141   XXXX                          00
1151G*COVINA ASC FUTERMAN            339-5638+
1163 MAPLES GLADYS I                 339-3383
1171 TAYLOR DEE T                    339-4122
1179   XXXX                          00
1181   XXXX                          00
1183 HOEL NELS C                     332-1684+
1185 MOTYKA DAVE                     332-4881+
1187 HANKE FRED                      339-3031
1189 KONNO DAVID                     339-3234
1203 VALENTINE PAMELA                967-3080
1205 BISHOP GREGG                    339-0969
1207 MCARTHUR STEVEN                 331-2975+
1211*MONTESSORI SCHOOL               332-1632
1216 WILES RONALD                    331-4471
1227 REDD DONALD A                   966-9068+
1228 CODY THOS JR                    966-6177+
1229   XXXX                          00
1231 ROLLF D H                       966-6890+
1233 CASSADY JAS                     966-8706+
1235 WILSON MICHAEL L                331-5039+
1237 WOOD LAWRENCE                   331-3178+
1240 FREEMAN C P                     966-0112+
1243 PAVEGLIO GERALD                 339-9146
     *REALISTIC REALTY               966-6816
1250   XXXX                          00
1260 FOSTER JACK N                   332-2828
1270 CADENA RICHARD H                331-0417
1271*CHURCH JESUS CHRIST              332-7979
     *CHURCH JESUS CHRIST            332-8418
     *CHURCH JESUS CHRIST            331-5500
     *  106 BUS   123 RES    65 NEW

BADILLO W  91773  SAN DIMAS

1603 HUERTA STEVEN JR                331-8404+
1615 DUARTE ALEXANDER C              331-4174
1621 LARNER ALBERT                   332-4889
1627 DAVIS ELLIS O                   966-9209
     *    0 BUS     4 RES     1 NEW

BADILLO W  91790  WEST COVINA

1417*FAITH ASSEMBLY GOD              338-0419
1437*CH OF THE NAZARENE              962-2740
     LEE JAMES N REV                 962-2740
1803*DONS MOBIL SERVICE              338-6521
1821*MCCOYS MARKETS                  338-6521
1827*LIQUOR
```



```
 1200*HONEYWELL INC                  331-0011
1350....LARK ELLEN TOWERS
       ALDEN ELMA                    444-5954+
  512  FLATT MABEL                   966-7746
  708  FOGWELL L H                   331-4508
  819  GORMLY HARRY J                966-1126
  708 *LARK ELLEN TOWERS             966-7561
  708 *LARK ELLEN TWR HOSP           966-7558
       MARCUSSEN WM                  966-4049+
  819  RUPERT KARL C                 966-5053
  801  TURNER STEVE                  966-3054
  316  WHITNEY ALTHEA                331-4986
1350.....................
     *   3 BUS    8 RES    2 NEW
```

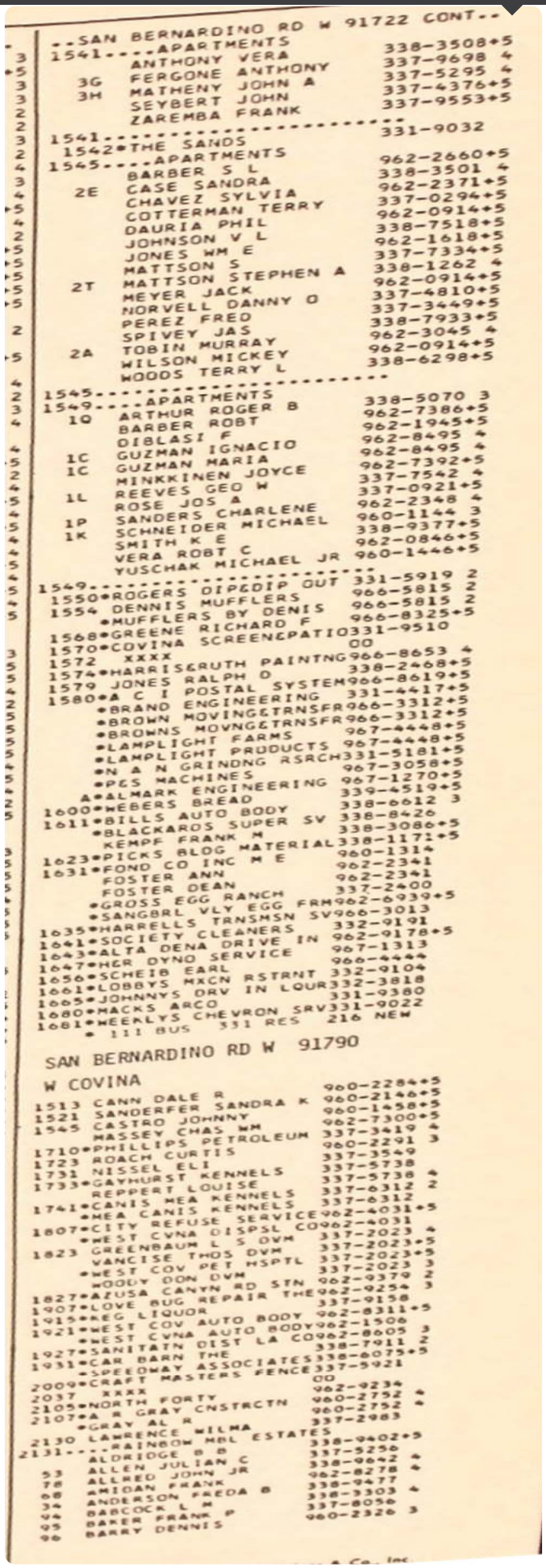
997*DUPLI SERVICE
999*WOOS CHINESE KITCHN 331-6216
1010*BUILDERS EMPORIUM 331-7381
1011*ELDON DRAPERY CLNRS 966-8447
*SEARS ROEBUCK&CO 331-0911
*SPARKLE CLEANERS 966-5131
1017*COVINA CASH REGISTR 967-2834*
*COVINA OFC MACHINES 967-2834
1035*STORTZ FLOOR COVRNG 331-0868
1045 XXXX 00
1060*BRUTOCO DEVELPMNT 339-1286
*BRUTOCO ENGINEERING 331-5347
*COVINA BOWL 339-1286
1062*ABAR BEAUTY SALON 331-3010*
1069*SHRIMP AHOY 331-2411*
1102 CRAWFORD RANDY L 331-8752*
1112 BENNETT J M 332-0382
1114*YEE SOONS CHNS CSNE 339-9200
1130....APARTMENTS
102 AZOUS ROBT 966-5754
216 BURCH RAYMOND 339-3344
CURRAN TOM J 331-5443*
219 GAGE LEE F 966-9404
HENDERSON RAYMOND 966-8784*
966-9250
103 LAURY STAN 332-3920*
LEININGER DAVID R 339-9877*
LEVEN JULIUS 332-5052*
LIMA J M DR 331-6991*
MAGALLANES ROBT 339-0991*
MANSON GARY 331-1350*
MARRISON WM R 331-4751
130 MCDONALD A S 966-1843*
MEEK DEBORAH 332-6717*
MEHRL JANET 332-0392
228 MENNIN MARTHA 332-5546*
MORRIS ELEANOR 966-6749*
OWENS DAVID 331-1919*
PASTORE MICHAEL 966-5792*
PENCE NANCY R 966-4267*
RICHARDSON LARRY 967-4741*
ROBB WALLY 966-6674
224 SIMS JAS F 331-8501*
STAGGS CARL D SR 331-2942
223 THOMSON RALPH L 331-7043*
TYLER D W 332-7468
227 WHITCANACK G

EAST L.A. THE RADIO

..SAN BERNARDINO RD W 91722 CONT..
WITTE KLAUS 331-4540*5
1130....
1131*FOWLER REAL ESTATE 331-0681 4
1139*FLORAL ESCROW CO 331-8236*5
1145*GILBERT JOHN J 966-1211 3
1151*COWDEN REALTY 967-1496 4
1170....APARTMENTS
225 BEISWENGER RICHARD 332-0431 2
BOOTH DENISE 332-1525*5
BUSSEY JEFFREY 332-5574*5
CAMERON GEO 966-9086*5
CHAU NELLY 966-2794*5
CHUPURDIA ROBIN 339-2447*5
CRAFT ALLEN 967-5578*5
134 CROSBY ALAN 966-8067 4
DALBY REX K JR 339-6593*5
DIMARTINO L 339-3565*5
DIXON ROBT 966-5543*5
101 DUNDON LESLIE 331-1388 2
243 FERRELL BARBARA 339-0502 2
119 FLEMING BRUCE 331-9559 2
FOSTER C 967-4641*5
110 GUZMAN ARNOLD 332-5892 4
HELVEY CURTIS 339-3019*5
209 HODNICKI WALTER 331-4019 3
238 HOWARD DUNCAN G 332-6841 4
JENIK CAROLIN R 966-2868*5
JEUKEN SANDRA 332-2108*5
KENNEDY VICKY 339-5173*5
LEE ROSANNA 967-3378*5
108 MARPLE M L 332-2989 4
MARSHALL J D 967-3378*5
211 MATERA BONNIE 339-4304 3
219 MATTHEWS STAN D 331-3400 4
231 MILLER DAVID 331-2867 4
PEARSON CARLTON J 332-3297*5
PETRENS VICTOR 966-8284*5
REEVE JAS 966-0017*5
105 SABATINI FRANK 332-2143 2
214 SCOTT JAMES JR 331-5843 2
112 SHAFFMAN C 966-9489 4
107 SINES JILL 339-1530 2
SMITH BARBARA G 966-1481*5
147 SOMMERS CALVIN C 339-5292 4
228 STUBBS NELSON E 966-1132 4
212 THAYER DANNY 966-7897 4
109 THOMPSON KENNETH J 339-5905 4
117 TOTH JULIUS 966-1470 2
122 TROMBLEY LAWRENCE 339-5635 4
WALKER GREG 339-3201*5
WOODRUM WM 332-6879*5
1170....
1217 XXXX 00
1220....THE OLIVE TREE APTS
ANDERSON THOS N 339-8438 4
132 ANNUNZIATA PAT J 339-2381 3
206 BLANK BRUCE 331-3238 4
103 BORSOS RON J 331-9644*5
BROWN LARRY W 966-7814*5
CHARTRAND MICHELLE 331-2181*5
COHEN CHAS 331-4029 4
102 COLE DONALD R 332-6075 3
115 CORTNER J 339-8830*5
CROWNOVER DONALD J 331-7865*5
DALTON CLAY 339-5053*5
DAVIS RAY 339-0269 3
110 DICKENS TERRY 339-2021*5
126 DICKEY CHRIS 332-3450 3
EDDY MICHAEL 339-6721*5
ERHARDT FRED E JR 331-9402*5
ERICKSON K A 967-1043*5
FLOWERS DONALD R 332-9922*5
GRUNER TERRY L 966-3173*5
211 HALL D M 339-1662 4
HOLLMANN ROBT L MRS 339-6397*5
JAROSZ DAN R 331-2545*5
JOHNSON RAY 332-0049*5
KASISKE TERRY 966-1416*5
KEY BRAD 967-5676*5
KORMOS K 332-1585*5
KREST BOB 967-5511*5
LASITER ELIZABETH 966-3496*5
LESLIE J D 966-3958 3
235 LETOURNEAU SOULE 331-5847*5
LIVINGSTON L N 339-8935*5
MANIER HARRY 332-7480*5
NORRIS MICHAEL F 339-3114*5
107 *OLIVE TREE THE 339-7607 4
PANTAGES DANNY 967-1033*5
PRUTEAU PHILLIP 339-4073*5
130 RILEY JAS 339-6549 4
RODDOCKER JANIE 966-8814*5
RODRIGUEZ ROSIE 967-4870*5
RODRIGUEZ VICTOR J 967-4870*5
111 SCHAITERER KENNETH 339-9183 3
SCHENKEL JEFF 339-8824*5
SHARR K 967-3367*5
SINZ BRUCE H 332-9300*5
112 STEHLE A J 332-0676 3
STEVENS P 339-9144*5
STEVENSON C 331-6074*5
231 THOMPSON HARRY E 966-7966 3
VIRGIN JOHN 331-7058*5
251 WALKER STEPHEN P 339-1571 3
245 WELSH MICHAEL G 339-6619 4
WERNER GEO 331-4350*5
1220....
1235 MILLER HUGH V 331-1468*5
12415 GRADY JOHN 332-6802*5
1247*CENTURY 21 RL EST 331-7301 4
*CITRUS REALTY 331-7301
1250....APARTMENTS
AKERS ROGERS M 339-4684*5
ALFORD RAY 332-1722 2
1 BAKER PAUL B 331-1526 4
34 BLATT GUSSIE 966-2657*5
BROWN JEAN L 339-0104
27 CARR ALBERT 339-8527 4
3 FREESON GERTRUDE 339-0256
26 FRIEDBERG IRVING 332-7128*5
FRISBIE JAS D JR 331-8395*5
GERBER R M 966-7005 4
9 GERBER RAY C 331-6179 4
39 *GERRENS CAPT CLNG 966-2411*5

..SAN BERNARDINO RD W 91722 CONT..
15 HAMILTON M G 966-2449
HUNT JOS 339-8691*5
11 JENSEN E C 966-4364
19 KRITCHMWSKY DIANA 967-2125
10 LAMBERG ANNA C 966-5773
42 LASCHOBER JOHN J 339-4862
24 LLOYD LOIS G 339-4041
12 MOORE ELSIE 332-0383
23 MORRIS E 339-2909
8 OUBER N C 966-6636
25 PHILLIPS N B 331-2683
POMERANTZ JENNIE 966-6128*5
14 STEIMLE RUTH 966-5971
36 VAUGHN CHAUNCEY W 966-9185
WANG GLADYS 966-6743*5
WANG YUE 966-6743*5
WHITCHER MARK 331-2583*5
WHITE JOHN R 331-3897*5
WOLFNER K C 339-0095*5
40 WOODS CARL J 339-7267
07 WOOSLEY CLIFFORD 339-6309
1250....
1257 ABE RICHARD R 331-7391*5
HARA B DSC 331-7391
1274*SHELL OIL CO 967-1211 4
1275*JIM YORKS SERV CNTR 331-1808
*JIMS SERVICE CENTER 331-1808
1313*FRANKS TEXACO 339-3905
1513....WEST COVINA APTS
100 DEANGELIS FRED B 337-2134
ECKMEDER FRANK 960-1320*5
1ON FAVERO JUAN 338-2969
1OG GRAY JAS S 338-3197
HOLGUIN ANN 962-7658*5
1OV KNAPIK DAVID 337-6368
KNIP WM JR 962-5007*5
101 RUBIN MARVIN 962-2238
1CF RYGIOL MICHAEL 337-5938
SELBY V L 338-8069*5
10E WAKEFIELD CRAIG L 338-2581
*WEST COV APARTMENTS 338-3418*5
10H WILLIAMS WAYNE A 337-4062
WYETT L 338-1878*5
1513....
1517....APARTMENTS
9J DOMITRO ATANACIO 338-3580 3
ELDER REBECCA SUE 337-1553*5
GOODWIN B A 338-0413*5
9B GORDEN RICHARD D 338-2884
9A GRATSON ALEXANDER 338-1975 2
HASTIE JACK 962-0331*5
HILLE EILEEN 338-9425*5
KENNEDY K 962-7388*5
LOMBINO ANNE 338-0412*5
9M LORENZO JAMES S 338-6008
NUNN MATILDA 338-3259*5
90 RICE N J 338-4789
9G STEELE CHAS K 960-2091 2
STOUT BONNIE 338-0583*5
1517....
1521....APARTMENTS
8I BRUMMETT EVA G 337-5437 3
BUTTERFIELD J 962-7739*5
BUTTERFIELD ROGER 962-7739*5
CLEMONS MICHAEL 962-9906*5
8B CONSTANTINO O JR 337-0180
DONHAM DANNY W 962-5498*5
ROBLES EDGAR 338-3746*5
ROBLES V 337-4536*5
1521....
1525....APARTMENTS
BALL C L 962-1190*5
7F EATON BETTY 337-0591
7N KINZIE DIANA RAE 338-9300 2
MADISON D R 962-5334*5
7G QUIROZ JOSE L 962-0979
7C RICHARD JOSETTI 337-7476
RUSSELL JOS 338-7453*5
1525....
1529....APARTMENTS
ABBOTT ARLENE F 962-6811*5
6C BOWYER RICHARD A 338-0560
BULLOCK DWAINA 962-0780*5
BULLOCK TERRY J 962-0780*5
6V CAMERON GEO JR 338-0188
6S COY A 338-2731
DEBURLET MARTHA 337-9456*5
6B FARLEY HARVEY LEE 960-2225
FEIT ROBT R 962-7887*5
HAWKINS G 338-0654*5
LUKACHY ARNOLD W 338-9813*5
MCCANDLESS GREGORY 338-0777*5
OLOHAM JEFF G 337-5053*5
RITA B 960-2376*5
SINGH RAJENDRA 338-8872*5
WILKERSON DENNIS 337-8522*5
1529....
1530*ALL COFFEE SHOP 339-2014
1533....APARTMENTS
BRIGGS ROY 338-4067*5
5A BUCHAN ALVIN 338-5733
COGBURN B 337-7874*5
DECRUZ S C 962-8534*5
FIELDS DENISE 336-8206*5
FORBES E E 338-9106*5
GIFFIN J A 962-8340*5
GUSTIN DONNA 338-6423*5
HILLENGASS ANN 337-4791*5
HUTCHISON CHARLENE 337-0926*5
NASH ANNE 337-7708*5
REYES RUDY M 338-1514*5
5B SANAD STANLEY 962-0301
SCHMIDT A E 960-2189*5
TAYLOR BRIAN D 337-3290*5
1533....
1537....APARTMENTS
KEITH CHERYL L 962-4640*5
6C MARTINEZ DAVE 338-8136
ROSENFELD JOHN 337-4481*5
6J SHERTZ JIM 338-8136
SZUDER SHARON 338-2240*5
ZAVALA FRANK 337-0340*5
1537....
1540 XXXX 00

...into a computer or photocopied, in any manner whatsoever except as authorized...

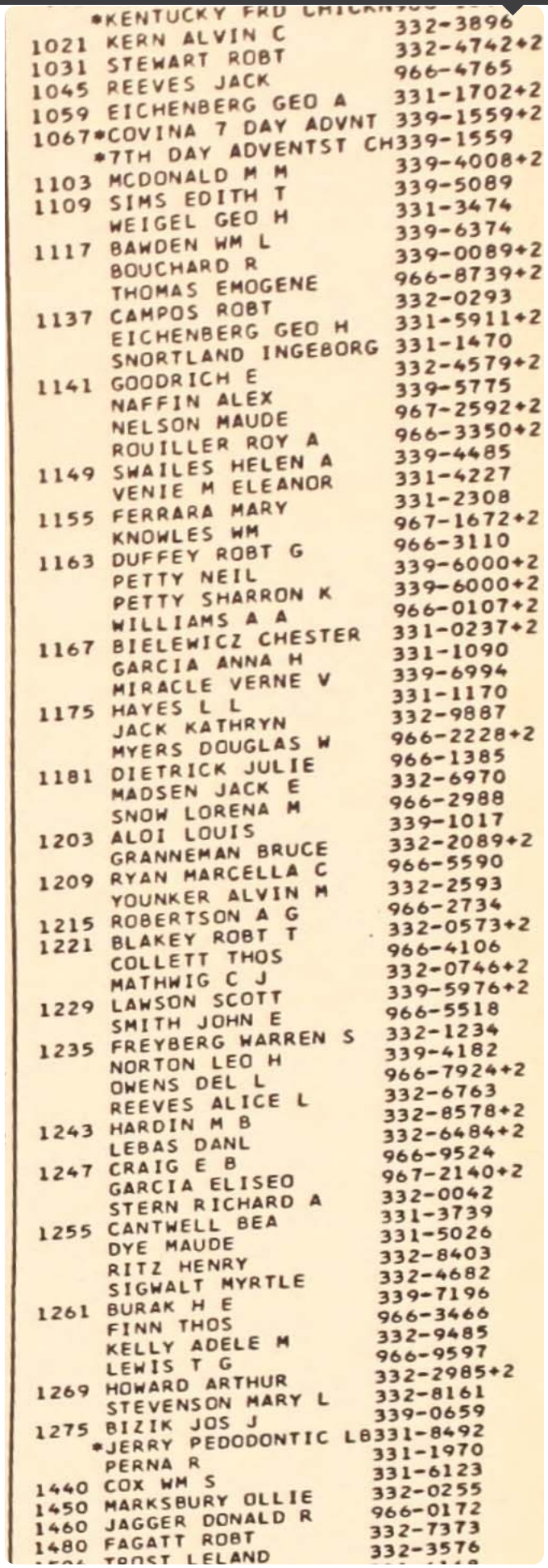


--SAN BERNARDINO RD W 91722 CONT--
1541----APARTMENTS
ANTHONY VERA 338-3508+5
3G FERGONE ANTHONY 337-9698 4
3H MATHENY JOHN A 337-5295 4
SEYBERT JOHN 337-4376+5
ZAREMBA FRANK 337-9553+5
1541----------
1542*THE SANDS 331-9032
1545----APARTMENTS
BARBER S L 962-2660+5
2E CASE SANDRA 338-3501 4
CHAVEZ SYLVIA 962-2371+5
COTTERMAN TERRY 337-0294+5
DAURIA PHIL 962-0914+5
JOHNSON V L 338-7518+5
JONES WM E 962-1618+5
MATTSON S 337-7334+5
2T MATTSON STEPHEN A 338-1262 4
MEYER JACK 962-0914+5
NORVELL DANNY O 337-4810+5
PEREZ FRED 337-3449+5
SPIVEY JAS 338-7933+5
2A TOBIN MURRAY 962-3045 4
WILSON MICKEY 962-0914+5
WOODS TERRY L 338-6298+5
1545----------
1549----APARTMENTS
1C ARTHUR ROGER B 338-5070 3
BARBER ROBT 962-7386+5
DIBLASI F 962-1945+5
1C GUZMAN IGNACIO 962-8495 4
1C GUZMAN MARIA 962-8495 4
MINKKINEN JOYCE 962-7392+5
REEVES GEO W 337-7542 4
1L ROSE JOS A 337-0921+5
1P SANDERS CHARLENE 962-2348 4
1K SCHNEIDER MICHAEL 960-1144 3
SMITH K E 338-9377+5
VERA ROBT C 962-0846+5
YUSCHAK MICHAEL JR 960-1446+5
1549----------
1550*ROGERS DIP&DIP OUT 331-5919 2
1554 DENNIS MUFFLERS 966-5815 2
*MUFFLERS BY DENIS 966-5815 2
1568*GREENE RICHARD F 966-8325+5
1570*COVINA SCREEN&PATIO 331-9510
1572 XXXX 00
1574*HARRIS&RUTH PAINTNG 966-8653 4
1579 JONES RALPH D 338-2468+5
1580*A C I POSTAL SYSTEM 966-8619+5
*BRAND ENGINEERING 331-4417+5
*BROWN MOVING&TRNSFR 966-3312+5
*BROWNS MOVNG&TRNSFR 966-3312+5
*LAMPLIGHT FARMS 967-4448+5
*LAMPLIGHT PRODUCTS 967-4448+5
*N A N GRINDNG RSRCH 331-5181+5
*PCS MACHINES 967-3058+5
*ALMARK ENGINEERING 967-1270+5
A*ALMARK ENGINEERING 339-4519+5
1600*WEBERS BREAD 338-6612 3
1611*BILLS AUTO BODY 338-8426
*BLACKARDS SUPER SV 338-3086+5
KEMPF FRANK M 338-1171+5
1623*PICKS BLDG MATERIAL 960-1314
1631*FOND CO INC M E 962-2341
FOSTER ANN 962-2341
FOSTER DEAN 337-2400
*GROSS EGG RANCH 962-6939+5
*SANGBRL VLY EGG FRM 962-3013
1635*HARRELLS TRNSMSN SV 966-9191
1641*SOCIETY CLEANERS 332-9178+5
1643*ALTA DENA DRIVE IN 962-1313
1647*HER DYNO SERVICE 967-1313
1656*SCHEIB EARL 966-4444
1661*LOBBYS MXCN RSTRNT 332-9104
1665*JOHNNYS DRV IN LQUR 332-3818
1680*MACKS ARCO 331-9380
1681*WEEKLYS CHEVRON SRV 331-9022
* 111 BUS 331 RES 216 NEW

SAN BERNARDINO RD W 91790

W COVINA

1513 CANN DALE R 960-2284+5
1521 SANDERFER SANDRA K 960-2146+5
1545 CASTRO JOHNNY 960-1458+5
MASSEY CHAS WM 962-7300+5
1710*PHILLIPS PETROLEUM 337-3419 4
1723 ROACH CURTIS 960-2291 3
1731 NISSEL ELI 337-3549
1733*GAYHURST KENNELS 337-5738
REPPERT LOUISE 337-5738 4
1741*CANIS MEA KENNELS 337-6312 2
*MEA CANIS KENNELS 337-6312
1807*CITY REFUSE SERVICE 962-4031+5
*WEST CVNA DISPSL CO 962-4031
1823 GREENBAUM L S DVM 337-2023 4
VANCISE THOS DVM 337-2023+5
*WEST COV PET HSPTL 337-2023+5
WOODY DON DVM 337-2023 3
1827*AZUSA CANYN RD STN 962-9379 2
1907*LOVE BUG REPAIR THE 962-9254 3
1915*KEG LIQUOR 337-9158
1921*WEST COV AUTO BODY 962-8311+5
*WEST CVNA AUTO BODY 962-1506
1927*SANITATN DIST LA CO 962-8605 3
1931*CAR BARN THE 338-7911 2
*SPEEDWAY ASSOCIATES 338-6075+5
*CRAFT MASTERS FENCE 337-5921
2009*XXXX 00
2037 NORTH FORTY 962-9234 4
2105*A R GRAY CNSTRCTN 960-2752 4
2107*A R GRAY CNSTRCTN 960-2752 4
*GRAY AL R 337-2983
2130 LAWRENCE WILMA ESTATES 962-9402+5
2131----RAINBOW MBL 338-9402+5
ALDRIDGE B B 337-5256 4
ALLEN JULIAN C 338-9942 4
53 ALLRED JOHN JR 962-8278 4
78 AMIDAN FRANK 338-9477
68 ANDERSON FREDA B 338-3303 4
34 BABCOCK L M 337-8056
94 BAKER FRANK P 960-2326 3
95 BARRY DENNIS
96



*KENTUCKY FRD CHICKN
1021 KERN ALVIN C 332-3896
1031 STEWART ROBT 332-4742+2
1045 REEVES JACK 966-4765
1059 EICHENBERG GEO A 331-1702+2
1067*COVINA 7 DAY ADVNT 339-1559+2
*7TH DAY ADVENTST CH 339-1559
1103 MCDONALD M M 339-4008+2
1109 SIMS EDITH T 339-5089
WEIGEL GEO H 331-3474
1117 BAWDEN WM L 339-6374
BOUCHARD R 339-0089+2
THOMAS EMOGENE 966-8739+2
1137 CAMPOS ROBT 332-0293
EICHENBERG GEO H 331-5911+2
SNORTLAND INGEBORG 331-1470
1141 GOODRICH E 332-4579+2
NAFFIN ALEX 339-5775
NELSON MAUDE 967-2592+2
ROUILLER ROY A 966-3350+2
1149 SWAILES HELEN A 339-4485
VENIE M ELEANOR 331-4227
1155 FERRARA MARY 331-2308
KNOWLES WM 967-1672+2
1163 DUFFEY ROBT G 966-3110
PETTY NEIL 339-6000+2
PETTY SHARRON K 339-6000+2
WILLIAMS A A 966-0107+2
1167 BIELEWICZ CHESTER 331-0237+2
GARCIA ANNA H 331-1090
MIRACLE VERNE V 339-6994
1175 HAYES L L 331-1170
JACK KATHRYN 332-9887
MYERS DOUGLAS W 966-2228+2
1181 DIETRICK JULIE 966-1385
MADSEN JACK E 332-6970
SNOW LORENA M 966-2988
1203 ALOI LOUIS 339-1017
GRANNEMAN BRUCE 332-2089+2
1209 RYAN MARCELLA C 966-5590
YOUNKER ALVIN M 332-2593
1215 ROBERTSON A G 966-2734
1221 BLAKEY ROBT T 332-0573+2
COLLETT THOS 966-4106
MATHWIG C J 332-0746+2
1229 LAWSON SCOTT 339-5976+2
SMITH JOHN E 966-5518
1235 FREYBERG WARREN S 332-1234
NORTON LEO H 339-4182
OWENS DEL L 966-7924+2
REEVES ALICE L 332-6763
1243 HARDIN M B 332-8578+2
LEBAS DANL 332-6484+2
1247 CRAIG E B 966-9524
GARCIA ELISEO 967-2140+2
STERN RICHARD A 332-0042
1255 CANTWELL BEA 331-3739
DYE MAUDE 331-5026
RITZ HENRY 332-8403
SIGWALT MYRTLE 332-4682
1261 BURAK H E 339-7196
FINN THOS 966-3466
KELLY ADELE M 332-9485
LEWIS T G 966-9597
1269 HOWARD ARTHUR 332-2985+2
STEVENSON MARY L 332-8161
1275 BIZIK JOS J 339-0659
*JERRY PEDODONTIC LB 331-8492
PERNA R 331-1970
1440 COX WM S 331-6123
1450 MARKSBURY OLLIE 332-0255
1460 JAGGER DONALD R 966-0172
1480 FAGATT ROBT 332-7373
TROST LELAND 332-3576

Report ID: 20200319269 - 3/24/2020
www.erisinfo.com

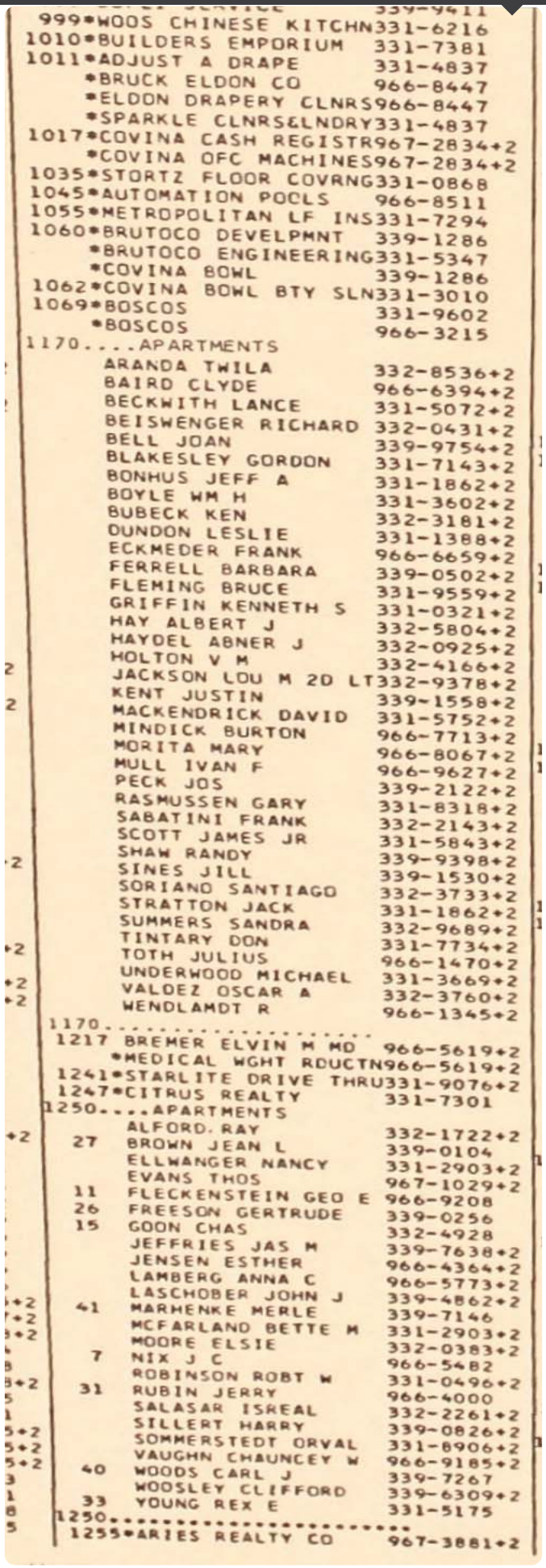
963 MAYBURY ROBT G 966-5208+2
1004 CANFIELD CARL L 339-5624
1032 CHALAIS TOM C 339-1042
1069*RADIO SHACK 966-1661+2
1082 TUCKER GILBERT JR 331-7602
1085*NATIONAL LIFEACCDNT966-1759+2
1103*WEE WISDOM NRSY SCH332-3881
1108*KENNYS MACHINE SHOP332-3177
OVERHOLTZER K L 332-3177
1111*DIAL A PRYR UNTY CH339-6520
*UNITY CHURCH 966-9002
1117 XXXX OO
1121 LEROY JOHN 339-7559+2
1123 PUNK CAROLYN 967-1695+2
1129 XXXX OO
1163 MAPLES GLADYS I 339-3383
1171 TAYLOR DEE T 339-4122
1179 BAKER TOM 966-2208+2
1181 XXXX OO
1187 CONNELLY ROBT P 332-4839+2
1189 XXXX OO
1203 JORDE LINDA 339-0487+2
1207 POMERANTZ JENNIE 966-6128
1211*CARTER ARCHIE M 331-3909
CARTER ARCHIE M 332-4464
1216 MYLES RONALD 331-4471+2
1227 JACOBSTEIN RONALD 966-9068+2
1228 BRUTOCAO LEONARD A 332-3777
1229 KRAUS FRANK 332-8188
1231 MANROGLOUS JOHN 967-1355
1239 DEPAUW A 966-3767
1247 OSCISLAWSKI M 332-6739+2
1260 BRUTOCAO LEONARD J 331-3874
1260 FOSTER JACK N 332-2928
1270 PATERSON M J 339-3943+2
1271*CHURCH JESUS CHRIST331-9900
*CHURCH JESUS CHRIST332-7979
*CHURCH JESUS CHRIST332-8418
* 102 BUS 93 RES 93 NEW

BADILLO W 91773 SAN DIMAS

1615 DUARTE ALEXANDER C 331-4174
1621 LARNER ALBERT 332-4889
1627 DAVIS ELLIS O 966-9209
* 0 BUS 3 RES 0 NEW

BADILLO W 91790 WEST COVINA

1417*FAITH ASSEMBLY GOD 338-0419
1437*CH OF THE NAZARENE 962-2740

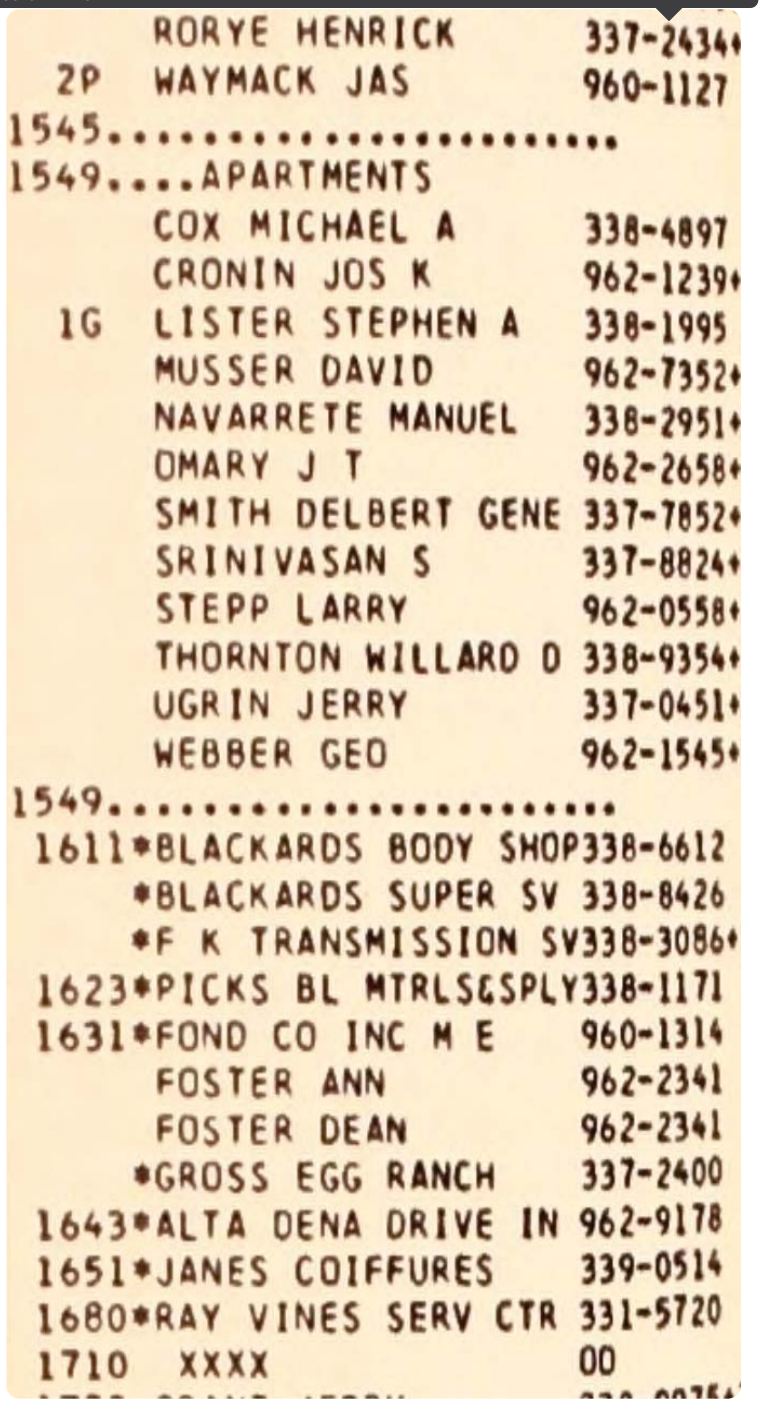


```
                                339-9411
 999*WOOS CHINESE KITCHN        331-6216
1010*BUILDERS EMPORIUM          331-7381
1011*ADJUST A DRAPE             331-4837
     *BRUCK ELDON CO            966-8447
     *ELDON DRAPERY CLNRS       966-8447
     *SPARKLE CLNRS&LNDRY       331-4837
1017*COVINA CASH REGISTR        967-2834+2
     *COVINA OFC MACHINES       967-2834+2
1035*STORTZ FLOOR COVRNG        331-0868
1045*AUTOMATION POOLS           966-8511
1055*METROPOLITAN LF INS        331-7294
1060*BRUTOCO DEVELPMNT          339-1286
     *BRUTOCO ENGINEERING       331-5347
     *COVINA BOWL               339-1286
1062*COVINA BOWL BTY SLN        331-3010
1069*BOSCOS                     331-9602
     *BOSCOS                    966-3215
1170....APARTMENTS
       ARANDA TWILA             332-8536+2
       BAIRD CLYDE              966-6394+2
       BECKWITH LANCE           331-5072+2
       BEISWENGER RICHARD       332-0431+2
       BELL JOAN                339-9754+2
       BLAKESLEY GORDON         331-7143+2
       BONHUS JEFF A            331-1862+2
       BOYLE WM H               331-3602+2
       BUBECK KEN               332-3181+2
       DUNDON LESLIE            331-1388+2
       ECKMEDER FRANK           966-6659+2
       FERRELL BARBARA          339-0502+2
       FLEMING BRUCE            331-9559+2
       GRIFFIN KENNETH S        331-0321+2
       HAY ALBERT J             332-5804+2
       HAYDEL ABNER J           332-0925+2
       HOLTON V M               332-4166+2
       JACKSON LOU M 2D LT      332-9378+2
       KENT JUSTIN              339-1558+2
       MACKENDRICK DAVID        331-5752+2
       MINDICK BURTON           966-7713+2
       MORITA MARY              966-8067+2
       MULL IVAN F              966-9627+2
       PECK JOS                 339-2122+2
       RASMUSSEN GARY           331-8318+2
       SABATINI FRANK           332-2143+2
       SCOTT JAMES JR           331-5843+2
       SHAW RANDY               339-9398+2
       SINES JILL               339-1530+2
       SORIANO SANTIAGO         332-3733+2
       STRATTON JACK            331-1862+2
       SUMMERS SANDRA           332-9689+2
       TINTARY DON              331-7734+2
       TOTH JULIUS              966-1470+2
       UNDERWOOD MICHAEL        331-3669+2
       VALDEZ OSCAR A           332-3760+2
       WENDLAMDT R              966-1345+2
1170.....................
 1217 BREMER ELVIN M MD         966-5619+2
     *MEDICAL WGHT RDUCTN       966-5619+2
1241*STARLITE DRIVE THRU        331-9076+2
1247*CITRUS REALTY              331-7301
1250....APARTMENTS
       ALFORD RAY               332-1722+2
  27   BROWN JEAN L             339-0104
       ELLWANGER NANCY          331-2903+2
       EVANS THOS               967-1029+2
  11   FLECKENSTEIN GEO E       966-9208
  26   FREESON GERTRUDE         339-0256
  15   GOON CHAS                332-4928
       JEFFRIES JAS M           339-7638+2
       JENSEN ESTHER            966-4364+2
       LAMBERG ANNA C           966-5773+2
       LASCHOBER JOHN J         339-4862+2
  41   MARHENKE MERLE           339-7146
       MCFARLAND BETTE M        331-2903+2
       MOORE ELSIE              332-0383+2
   7   NIX J C                  966-5482
       ROBINSON ROBT W          331-0496+2
  31   RUBIN JERRY              966-4000
       SALASAR ISREAL           332-2261+2
       SILLERT HARRY            339-0826+2
       SOMMERSTEDT ORVAL        331-8906+2
       VAUGHN CHAUNCEY W        966-9185+2
  40   WOODS CARL J             339-7267
       WOOSLEY CLIFFORD         339-6309+2
  33   YOUNG REX E              331-5175
1250.....................
 1255*ARIES REALTY CO           967-3881+2
```



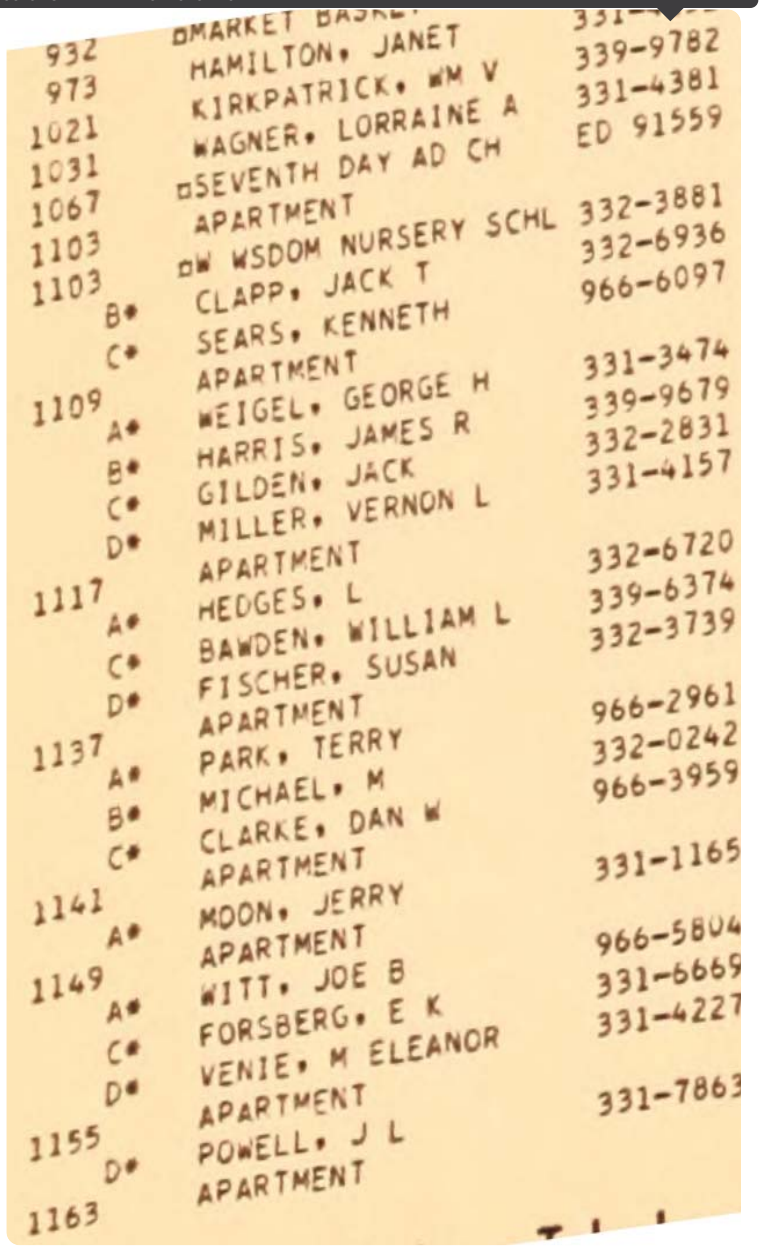

```
--SAN BERNARDINO RD W 91722 CONT--
 1257 HARA B DSC                331-7391
      ROSENBLUM DALE DSC        331-7391+2
 1274*AMERICAN OIL SERV         331-9130+2
 1275*JIM YORKS SERV CNTR       331-1808+2
 1313*GARNETTS TEXACO           966-2312+2
 1350  XXXX                     OO
 1530*A&L COFFEE SHOP           339-2014+2
 1540*HARRIS&RUTH PAINTNG       339-8233+2
 1550*ROGERS DIP&DIP OUT        331-5919+2
 1554  DENNIS MUFFLERS          966-5815+2
      *MUFFLERS BY DENIS        966-5815+2
 1568*BROWNS MVNG&TRNSFR        966-3312
 1570*COVINA SCREEN&PATIO       331-9510
 1600*WEBER BAKING CO            339-4519
 1635*HARRELLS TRNSMSN SV       966-3013
 1641*SOCIETY CLEANERS          332-9191
 1647*ATHANS TOW SERVICE        337-8916+2
      *H&R DYNO SERVICE         967-1313
 1651*VIN SAN BARBER SHOP       966-3161
 1656*SCHEIB EARL               966-4444
 1661*LOBBYS MXCN RSTRNT        332-9104
 1665*JOHNNYS DRV IN LQUR       332-3818
 1680*MACKS ARCO                331-9380
 1681*WEEKLYS CHEVRON SRV       331-9022
      *  93 BUS   110 RES       92 NEW
SAN BERNARDINO RD W 91790 W CVNA
1513....WEST COVINA APTS
       BERESFORD DAVID R        338-1780+2
       CASTLEBERRY TIM          962-0083+2
       CHEEK FRED               337-8422+2
       EKLUND PHILIP G          962-5263+2
       FAVERO JUAN              338-2969+2
       FAVERO RUBIN             962-8520+2
       GLOVER RODNEY LT         337-5026+2
       GRESHAM CARROL           962-0750
 10X   GRIFFITH BOB             337-6320
       HOWARD DAVID             338-4783+2
       LEDBETTER OTIS           337-8604+2
       MAMMEN LEWIS             337-0170+2
       SADICH CAROL MRS         338-7891
 100 *WEST COVINA APTS          962-6803
1513.....................
1517....APARTMENTS
       CANNON CHRYL             962-7638
       GRATSON ALEXANDER        338-1975+2
       HAYNES C                 338-2258+2
       HIGGINS CHAS F           337-0661+2
  9I   HILTUNEN DONALD J        962-7865
       MCMAHON ANN              337-3087+2
       MORO J ANTHONY           962-8041+2
       PETRIK MILOSLAV          338-0335+2
       ROLLY STACI              338-2494+2
       ROWLEY JOHN              338-7961
       STEELE CHAS K            960-2091+2
  9D   SUMNER BERTIE LOU        962-5679
       TRACY E P                962-7269
1517.....................
1521....APARTMENTS
       ANDREWS JAS H            338-7489+2
       COWAN WILLIE D           962-0472+2
       ESTRADA LILLIAN          337-5932+2
       THACKER ALAN SCOTT       962-6035+2
       WYATT DONNA              338-6068+2
1521.....................
1525....APARTMENTS
       BORDEN JOY P             337-3655+2
  7J   DEVICH ROBT N            962-0055
  7F   EATON BETTY              337-0591
       GENTRY JOE H             338-8364+2
       KINZIE DIANA RAE         338-9300+2
       NELSON WM J              960-1343+2
       PAGANO PAUL B JR         962-5373+2
  7K   PARKER ROBT H            962-6260
1525.....................
1529....APARTMENTS
       BIRCHAM ALIN             338-7856+2
       JOHNSON THOS             338-4988+2
       MCCOLLOUGH JERRY         962-0286+2
  6V   MIANO JOHN S             962-0949
       NEEDS THOS C             962-5458+2
  6W   RUDE EMIL P              337-7127
       STURGEON BOB             962-0070+2
1529.....................
1533....APARTMENTS
  5A   BUCHAN ALVIN             338-5733
       HONEYCUTT FREDA          962-2321+2
       JENNINGS D               960-2106+2
       MCCREADIE FORREST        962-4623+2
  5K   MORRIS DAVID E           337-1503
       MULLIGAN DAVE            338-2384+2
       NICHOLAS RICHARD         338-2573
       ROGERS GLORIA            337-3463+2
  5B   SANKO STANLEY            962-0301
       SHUKLA TANSUKH           338-4942+2
       VIETH RICHARD            337-8020+2
       WALTERS JOHN R           337-1908+2
       WEBB WM L                337-0708
1533.....................
 1537  MEEKS LANA               337-5433+2
       TAMPIO BENJAMIN SR       960-1796
       VOLPE THOS               962-5089+2
       ZACKERY NATHAN           962-2960+2
 1541....APARTMENTS
       BRYER RONALD J           962-0243+2
       CLIFFORD MARY F          337-1029+2
       LAWHON SUE               338-6966+2
       RASMUSSEN BARBARA        338-2293+2
       SALAZAR ROY              337-7690+2
       SEYMOUR ROBT J           338-8538
       THOOS PAT                962-1931+2
       TOURVILLE L              337-3449+2
       WILLIAMS JAS H JR        338-3858+2
1541.....................
 1542*THE SANDS                 331-9032
1545....APARTMENTS
       DENTON HAROLD L          338-6580+2
       GARCIA CRUZ JR           337-8540+2
       GORDON HAROLD            337-2524
  2K   HAYDEN JAS A             962-9724
  2E   HUBBARD RAY              962-3064
       LAPLANTE GERARD          962-1447+2
       PONCE LINDA              338-9233+2
```

1972 — *SOURCE: HAINES* — **SAN BERNARDINO ROAD - C**



```
      RORYE HENRICK          337-2434
  2P  WAYMACK JAS            960-1127
1545.....................
1549....APARTMENTS
      COX MICHAEL A          338-4897
      CRONIN JOS K           962-1239
  1G  LISTER STEPHEN A       338-1995
      MUSSER DAVID           962-7352
      NAVARRETE MANUEL       338-2951
      OMARY J T              962-2658
      SMITH DELBERT GENE     337-7852
      SRINIVASAN S           337-8824
      STEPP LARRY            962-0558
      THORNTON WILLARD D     338-9354
      UGRIN JERRY            337-0451
      WEBBER GEO             962-1545
1549.....................
1611*BLACKARDS BODY SHOP     338-6612
     *BLACKARDS SUPER SV     338-8426
     *F K TRANSMISSION SV    338-3086
1623*PICKS BL MTRLS&SPLY     338-1171
1631*FOND CO INC M E         960-1314
      FOSTER ANN             962-2341
      FOSTER DEAN            962-2341
     *GROSS EGG RANCH        337-2400
1643*ALTA DENA DRIVE IN      962-9178
1651*JANES COIFFURES         339-0514
1680*RAY VINES SERV CTR      331-5720
1710  XXXX                   00
```

1966 — *SOURCE: GENERAL TELEPHONE OF CALIFORNIIA* — **BADILLO STREET - A**



```
 932    □MARKET BASK
 973    HAMILTON, JANET          339-9782
        KIRKPATRICK, WM V        331-4381
1021    WAGNER, LORRAINE A       ED 91559
1031    □SEVENTH DAY AD CH
1067    APARTMENT
1103    □W WSDOM NURSERY SCHL    332-3881
1103    CLAPP, JACK T            332-6936
   B*   SEARS, KENNETH           966-6097
   C*   APARTMENT
1109    WEIGEL, GEORGE H         331-3474
   A*   HARRIS, JAMES R          339-9679
   B*   GILDEN, JACK             332-2831
   C*   MILLER, VERNON L         331-4157
   D*   APARTMENT
1117    HEDGES, L                332-6720
   A*   BAWDEN, WILLIAM L        339-6374
   C*   FISCHER, SUSAN           332-3739
   D*   APARTMENT
1137    PARK, TERRY              966-2961
   A*   MICHAEL, M               332-0242
   B*   CLARKE, DAN W            966-3959
   C*   APARTMENT
1141    MOON, JERRY              331-1165
   A*   APARTMENT
1149    WITT, JOE B              966-5804
   A*   FORSBERG, E K            331-6669
   C*   VENIE, M ELEANOR         331-4227
   D*   APARTMENT
1155    POWELL, J L              331-7863
   D*   APARTMENT
1163
```

BADILLO ST E		
	STOUDT, JAMES R	331-9677
A*	□LANDSCAPE CONS SERV	332-2119
B*	APARTMENT	
1167	CLINTON, RAY L	331-6147
C*	ALLEN, ROGER	331-9440
D*	APARTMENT	
1175	SALFRANK, ALFRED O	331-5756
A*	BLACKETON, ROBERT J	966-1844
B*	JACK, K	332-9887
D*	APARTMENT	
1181	LOWE, SAM	332-7930
B*	SNOW, LORENA M	966-2988
D*	APARTMENT	
1203	STERLING, R B	339-0214
A*	ALOI, LOUIS	339-1017
B*	ALLEN, MINNIE H	339-8259
C*	JONES, DAVID R	339-1418
D*	APARTMENT	
1209	GRAY, J E	331-6031
A*	BACA, ROBERT L	966-5547
B*	APARTMENT	
1215	ZORN, STEVE	339-9095
A*	EWERS, VELMA	966-2742
B*	WALEN JR, JOHN	332-0460
D*	APARTMENT	
1221	BROWN, ROY G	966-6657
B*	LEWIS, R J	331-4274
C*	MC REYNOLDS, WARD	331-9365
D*	APARTMENT	
1229	WEREB, ANNA M	966-5518
B*	MONROE, CHARLES W	966-3135
C*	BURING, JOHN A	966-3848
D*	APARTMENT	
1235	KINGSLEY, DAVID C	966-5841
A*	OLSON, BETH M	966-4087
B*	REEVES, A L	332-6763
D*	APARTMENT	
1243	GLATTLEY, RALPH C	331-3119
B*	NOSTRAME, ANDREW	339-5579
C*	URLIE, KARL	966-3369
D*	APARTMENT	
1247	MAC RITCHIE, ANGUS	339-3074
B*	WILLIAMS, ROBERT C	331-2590
C*	DUDLEY, RALPH	331-4620
D*	APARTMENT	
1255	BUTLER, F A	331-6631
A*	RITZ, HENRY	332-8403
B*	CANTWELL, BEA	331-3739
C*	DYE, MAUDE	331-5026
D*	APARTMENT	
1261	COMSA, JOHN	332-6509
A*	WILLIAMS, CARL W	331-2705
C*	APARTMENT	
1269	STEVENSON, MARY L	332-8161
A*	PERNA, ROSE	331-1970
C*	KEVIL, PAUL D	966-4733
D*	APARTMENT	
1275	HANCOCK, MAME	331-8063
A*	COYLE, G	332-2317
C*	CARBREY, PAULINE	331-8723
L*	COX, W S	ED 16123
1440	DAVIS, FRANK K	332-5012
1460	LAWRENCE, W	ED 96453
1470	FAGATT, R	ED 27373
1480	CHEN, P S K	ED 17730
1504	FINCH, M P	ED 16168
1514	MARVIN	339-6177
		ED 98911

1004	CANFIELD, C L	339-5624
1014	WILKERSON, KENNETH L	339-8093
1065	□ACORN ARROW ELECTRNC	966-1661
1082	TUCKER JR, G	331-7602
1085	□NATL LFE/ACCIDNT INS	966-1759
1108	□KENNYS MACHINE SHOP	332-3177
1111	□UNITY CH/FOOTHILLS	339-9002
1119	LYON, MARJA	339-4667
1123	GUNDEL, GEO L	966-6101
1129	GIORDANI, LEONARD W	332-9933
1163	MAPLES, G I	339-3383
1171	TAYLOR, D T	339-4122
1179	LANDON, STEPHEN	966-2859
1181	PARKS, I	966-6462
1183	PAYNE, MYRTLE J	966-6130
1201	TILBURY, GORDON M	332-1731
1203	WALKER, GARY L	331-6706
1205	ROBERTSON, BRUCE	966-2328
1207	POMERANTZ, JENNIE	966-6128
1211	CARTER, A M	332-4464
1211	□CARTERS SANITATION	331-3909
1216	HARMS, GEORGE	331-3218
1223	NIELSEN, WALTER	331-6506
1227	NYTRAY, LESTER	332-6946
1228	BRUTOCAO, L A	332-3777
1229	SMITH, J L	332-4935
1231	SMITH, JOHN L	332-2148
1235	DE PAUW, A	966-3747
1237	KRAUS, FRANK	332-8188
1250	WYSON, ELAINE	966-6148
1260	FOSTER, J	332-2828
1270	PATERSON, M J	339-3943
1271	□CH/JESUS CHRIST/LDS	332-8418
1271	□CH/JESUS CHRIST/LDS	332-9090

1437	▫CHURCH/THE NAZARENE	962-2740
1802	▫DIXSONS CHEVRON SVC	337-8030

999	▫WOODS CHINESE KITCHN	
1010	▫BUILDERS EMPORIUM	
1011	▫SPARKLE CLNRS/LNDRY	
1017	▫SAN ANTONIO WINERY	
1035	▫STORTZ FLOOR CVRING	
1045	▫POOLS BY AUTOMATION	
1055	▫METROPOLITN LIFE INS	
1060	▫COVINA BOWL	
1062	▫COV BOWL BTY SALON	
1069	▫SIZZLER NO 33	
1250	APARTMENT	
1*	KUNESH, S	
7*	SHERRETT, ALICE L	
12*	WEST, W W	
13*	MARTORANO, JOSEPH	
17*	OLIVER, LEWIS A	
27*	WALESIAK, DAVE	
28*	INMAN JR, ARLIN	
34*	LOWERY, CHARLES E	
35*	MOSER, ARTHUR E	
36*	ZONNO, ANGELO V	
37*	HENDERSON, G S	
38*	MANN, BERNARD	
40*	WOODS, CARL J	
41*	DUNDON, LESLIE	
43*	ORRIN, P L	
1274	▫JOES AMERICAN SVC	
1275	▫SEIDEL / SON SVC	
1313	▫KNIGHT DELNO TEXACO	
1530	▫DARI DELITE VLMC/COV	
1542	▫GENNY ARLENES INN	
1550	▫TOMS DRIVE IN	
1554	▫JOHNNIE LEE RLTY CO	
1568	▫COVINA SCREEN/PATIO	
1574	▫SELWAY ENTERPRISE	
1611	▫HINCHCLIFFE REALTY	
1635	▫B / B PIT STOP	
1641	▫SOCIETY CLEANERS	
1647	▫BUDS AUTO SERVICE	
1656	▫SCHEIB, EARL	
1661	▫THE LOBBY	
1663	▫MARGES BEAUTY SALON	
1663	▫WALKERS VIN SAN BRBR	
1665	▫JOHNNYS DR IN LIQRS	
1680	▫DENNYS RICHFIELD SVC	
1681	▫WEEKLY CHEVRON SVC	

1513	APARTMENT	
1513	▫WEST COV APT	
Q•	OWENS, MRS DEL L	338-5402
4K•	COPPING, ALBERT E	338-1744
9D•	WARE, RICHARD	337-7943
10C•	WISEMAN, M	337-1164
10D•	GILLEN, ROBERT J	ED 88564
10E•	THOMSEN, JEAN M	338-7140
10F•	WOOD, GEORGE P	962-1840
10H•	LAURIE, EDMUND	962-1605
10N•	WILLMITE, E C	337-2727
10S•	EMERSON, LOU	338-3116
10V•	GUBKIN, ISRAEL	337-1730
1517	APARTMENT	338-1074
Q•	CAMPBELL, PATRICIA	337-6650
9A•	SCHUMAN, E	ED 71553
9C•	GARD, DARL B	338-7683
9F•	UPTON, LARRY	337-2145
9G•	MC GRATH, ROGER	338-3144
9H•	PETERSEN, EDWARD B	338-9081
9-I•	HILTUNEN, DONALD J	962-7865
9K•	SULLIVAN, JAMES F	338-3904
9L•	PFISTERER, ERICH H	962-2851
9N•	DYSLE, JOYCE L	962-7038
9O•	NOLAN, ROBERT	338-1233
9P•	MEISSNER, DON E	337-2386
9R•	BROWN, STEVEN	962-5090
1521	APARTMENT	
8A•	SHEPHERD, LEO F	337-3556
8G•	LINDLEY, DOUG	962-7692
8H•	BALERNA, JOHN S	338-8332
8I•	CHASE JR, VICTOR R	962-4749
8L•	CEDERGREEN, EDWIN F	338-1563
8P•	HEALY, LAURIE	338-2174
1525	APARTMENT	
G•	JONES JR, WILLIAM H	338-5322
7A•	STRAIN, FAYE	338-1923
7B•	MC LAUGHLIN, RAYMOND	338-0191
7E•	KLINEHOFFER, HAROLD	337-0565
7F•	EATON, BETTY	337-0591
7J•	HICKS, KENNETH	337-5677
7K•	PRESNER, CHARLES F	962-5336
7L•	CUTBIRTH, MICKEY G	338-6231
1529	APARTMENT	
1529	TRACY, EDWARD P	337-5560
6A•	RENTERIA, JIM	338-2548
6M•	HOLMES, WAYNE	962-7759
6N•	CASEY, MRS ENA	338-6001
6O•	COMER, J H	337-6894
6V•	COHEN, J H	338-5244
6W•	RUDE, EMIL P	337-7127
1533	APARTMENT	
5A•	SCHULTZ, CHARLES	338-9991
5F•	BROWN, KENT	962-4821
5G•	PITTMAN, DENNY	338-8211
1537	APARTMENT	
A•	GROENKE, ARTHUR W	337-7389
4B•	ALLARD, LLOYD P	962-6031
4C•	WHITTAKER, CHARLES T	337-9527
4E•	QUIJAS, ROBERT	338-2745
4G•	PARKER, WILLIAM E	337-6652
4H•	ALLIS, WARD	338-6220
1541	APARTMENT	
1541	LANFRANCO, JORGE A	338-6817
3G•	HAYDEN, JAMES A	338-4539
3I•	MEAMBER, JON	338-4961
3M•	BARR, E S	338-7988
3N•	VAN HEESWYK, GEORGE	337-0450
3Q•	CALLOWAY, JAMES	962-7469
1545	APARTMENT	
2E•	MAC DONALD, W D	337-4252
2F•	HUK, STEPHEN	962-4775
2G•	HASKELL, ARLINE	337-5710
2I•	LIPES, JERRY J	338-9037
2J•	BOUTBOUL, ANDRE S	962-4329
2L•	CASSIDY, MARTIN J	337-3438
2M•	PEED, ROBERT	338-2642
2N•	KELLY, BEVERLY	337-8689
2S•	HOSKINS, JACK	338-3936
1549	APARTMENT	
Q•	NORRIS, OLGA	338-1363
1H•	FANNIN JR, EDWARD J	338-4127
1M•	DALTON, DALVIS	338-2063
1P•	ANDERS JR, JOHN H	337-8866

1R•	MENAGH, DAVID W	962-2864
1W•	GRAF, ROBERT G	338-0751
14•	DALY, JOHN	337-5282
1611	▫BLACKARDS SUPER SVC	ED 88426
1611	▫F K TRANSMISSION SV	ED 83086
1611	▫MODERN RAD/WLDNG SV	338-7378
1623	▫PICKS BLDG MTRL/SPLY	338-1171
1631	FOSTER, A	962-2341
1631	▫GROSS EGG RANCH	337-2400
1710	▫PAULSONS FLYING A SV	337-9107

1021	FARMER, P L	ED 13550
1031	GIFFORD, R W	ED 16673
1039	BROWN, J T	ED 13628
1051	▫BROWN, J N	ED 27462
1067	▫SEVENTH DAY AD CH	ED 91559
1440	COX, W S	ED 16123
1450	DILLIARD, E M	ED 20255
1460	▫BENS TRENCHING SVC	ED 94720
1460	LAYTON, B H	ED 25012
1470	LAWRENCE, W	ED 96453
1480	FAGATT, R	ED 27373
1504	CHEN, P S K	ED 17730

1010	▫BUILDERS EMPORIUM	ED 17381
1011	▫SPARKLE CLNRS/LNDRY	ED 14837
1017	▫VIC TANNYS GYM/HLTH	ED 19051
1017	▫VIC TANNYS GYM/HLTH	ED 19077
1045	▫POOLS BY AUTOMATION	331-6338
1055	▫METROPOLITAN LIFE INSE	ED 17294
1060	▫BENEFICIAL FINANCE	ED 91286
1060	BRUTOCAO, L A	ED 23777
1060	▫COV BOWL BTY SALON	ED 13010
1542	▫ARLENES PLACE	ED 29223
1554	▫HEATLY REAL ESTATE	ED 14868
1554 1/2	▫LYNCH CABINET	ED 24312
1568	▫GARDENLAND NURSERY	ED 14223
1635	▫COVINA SCREEN&PATIO	331-9510
1635	▫WONDER BURGER COFFEE	332-9257
1641	▫SOCIETY CLEANERS	ED 29191
1647	▫PERFORMANCE ASSOC	331-9978
1656	GARVER, G S	ED 21259
1661	▫COVE INN THE	ED 29104
1663	▫MARGES BEAUTY SALON	ED 93508
1665	▫JOHNNYS DR/IN LIQRS	ED 29046
1680	▫LARRYS RICHFIELD SER	ED 18717
1681	▫WEEKLY/SONS CHEV SV	ED 19022

1513	APARTMENT	
1513	▫WEST COVINA APTS	YO 21318
1513	THOMAS, J C	ED 76719
A*	RICHARDS, D J	ED 73921
B*	HORSTMAN, R	YO 21728
C*	WISEMAN, M	ED 88564
D*	MAC MILLAN, MRS E	ED 74120
H*	WEITSCHAT, M E	ED 74286
I*	GREEN, DOROTHY	ED 78002
J*	PEARL, J D	ED 71724
K*	BELL SR, G M	ED 73557

		ED 8095
L*	BURLIN, R	962-2662
N*	KIRK, M L	ED 76618
S*	EVANS, V L	
	APARTMENT	ED 85144
1517	KNOLL, J	ED 71553
1517	SCHUMAN, E	ED 77390
A*	DAHMEN, C	338-3255
C*	REED, D	ED 74754
E*	TALLEY, W	YO 21339
F*	GILES, J N	ED 75976
J*	WEINSTEIN, R L	ED 71561
M*	MC GEE, G H	
T*	APARTMENT	337-2016
1521	PENDLETON, J M	ED 88217
B*	DONAHUE, R L	YO 21671
F*	LONG, R R	ED 72947
G*	KURTZ, W H	ED 74438
H*	OATMAN, L	ED 73215
K*	SENF, B J	338-9487
L*	KING, J D	ED 81432
M*	LEHMAN, N R	ED 70756
N*	DALE, B	338-3683
O*	COUSINEAU, J	
P*	APARTMENT	ED8-6544
1525	GOODING, A	ED 85777
1525	MUZYCHENKO, P J	ED 86876
A*	ALBERT, L	
K*	APARTMENT	ED 83162
1529	BOLVIG, V	ED 85940
C*	WASSON, R L	ED 82935
D*	HUFF, E	ED 89105
E*	COLLIER, R A	ED 84019
G*	RUBINSTEIN, J L	ED 73214
I*	HERRERA, L	ED 78924
N*	RUSS, A	ED 80496
O*	MEISSNER, D E	ED 71064
P*	BROADWAY, M	ED 88531
T*	GREEN, C C	
U*	APARTMENT	ED 86798
1533	ROBB, H W	ED 71057
C*	LINDHOLM, H	ED 78694
E*	GRAHAM, I	962-2242
I*	CLARK, G	ED 77622
J*	SCHURER, HEINRICH	ED 76286
M*	DE FAZIO, R P	962-2669
N*	LIPSCOMB, G	ED 75251
O*	MEDLOCK, E	338-9087
U*	PULLUM, C F	ED 76977
V*	YELLON, P S	ED 89207
W*	MASTEN, D	
X*	APARTMENT	ED 72156
1535	MANTHEY, G L	ED 86609
1535	NYCHEY, J	ED 74150
1535	MANTHEY, C L	ED 80598
21*	MARTIN, S	ED 83070
4E*	CAMPBELL, E M	
9P*	APARTMENT	YO 21782
1537	CRAVE N JR, R W	ED 80178
1537	ROSS, H T	YO 21707
C*	GOMPERT, W	
H*	APARTMENT	337-6197
1541	PALMER, R E	338-1578
C*	LOTELLA, L A	ED 76100
H*	MIRANDA, J	
J*	APARTMENT	ED8-3588
1545	FARMER, J A	YO 21361
1545	KEATING, DR J L	ED 70471
A*	FERM, M	ED 89638
D*	RASP, J W	ED 80212
D*	RITTENHOUSE, R W	ED 80624
E*	BRIGHT, R P	ED 71790
F*	BLOOMINGER, M M	ED 72156
G*	MANTHEY, G L	ED7-3629
I*	MAYSEY, D	ED 75958
P*	DOUGLAS, W M	ED 78823
Q*	ABRANOWSKI, S	ED 83190
S*	COSTELLO, K	
T*	APARTMENT	ED 80944
1549	SMITH, R T	ED 86667
1549	MILLER, J J	ED 74023
E*	BRADLEY II, B F	ED 78573
F*	GRAVES, W H	ED 83254
H*	SHUMERK, F	ED 84169
I*	PEDI, M	338-3809
J*	KASLOW, E	ED 70283
K*	PHILLIPS JR, R	ED7-2976
N*	CARLSON, M I	ED 85640
O*	JONES, DREDMOND	ED 73131
R*	DERFLER, F	YO2-2044
S*	RAMSAY, A	ED 85929
T*	STRENGELL, P B	ED 71544
U*	MASTROGUISEPPE, D	ED 84225
W*	COMPTON, D	ED 85752
Y*	MAKOWSKI, F	ED 79087
1*	▫BLACKARDS SUPER SER	ED 88426
1611	▫BLACKARDS SUPER SVC	ED 83086
1611	▫F K TRANSMISSION SV	ED 87378
1611	▫MODERN RAD/WLDNG SV	ED 81171
1611	▫PICKS BG MTRL/SUP C	962-2341
1623	FOSTER, A	ED 72400
1631	FOSTER, D	ED 89115
1631	▫REEDS FLYING A SVC	

1951
SOURCE: STREET ADDRESS DIRECTORY

BADILLO STREET

STREET NOT LISTED

1951
SOURCE: STREET ADDRESS DIRECTORY

SAN BERNARDINO ROAD

STREET NOT LISTED

--- END REPORT ---

ENVIRONMENTAL RISK INFORMATION SERVICES

FIRE INSURANCE MAPS

Project Property:	PNR0651FW1/267A (DAX9) 1211 Badillo Street West Covina CA 91790
Project No:	PNR0651FW1/267A (DAX9)
Requested By:	Geosyntec Consultants
Order No:	20200319269
Date Completed:	March 20, 2020

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		20200319269p
Date Completed:		March 19, 2020
Project Number:		PNR0651FW1/267A (DAX9)
Project Property:		PNR0651FW1/267A (DAX9) 1211 Badillo Street West Covina CA 91790
Coordinates:		
	Latitude:	34.08754426
	Longitude:	-117.92074178
	UTM Northing:	3772245.32026 Meters
	UTM Easting:	415057.447908 Meters
	UTM Zone:	UTM Zone 11S
	Elevation:	453.43 ft
	Slope Direction:	W

Topographic Information....2
Hydrologic Information....4
Geologic Information....7
Soil Information....9
Wells and Additional Sources....11
Summary....12
Detail Report....14
Radon Information....32
Appendix....33
Liability Notice....35

The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Baldwin Park, CA

Source: USGS 7.5 Minute Topographic Map

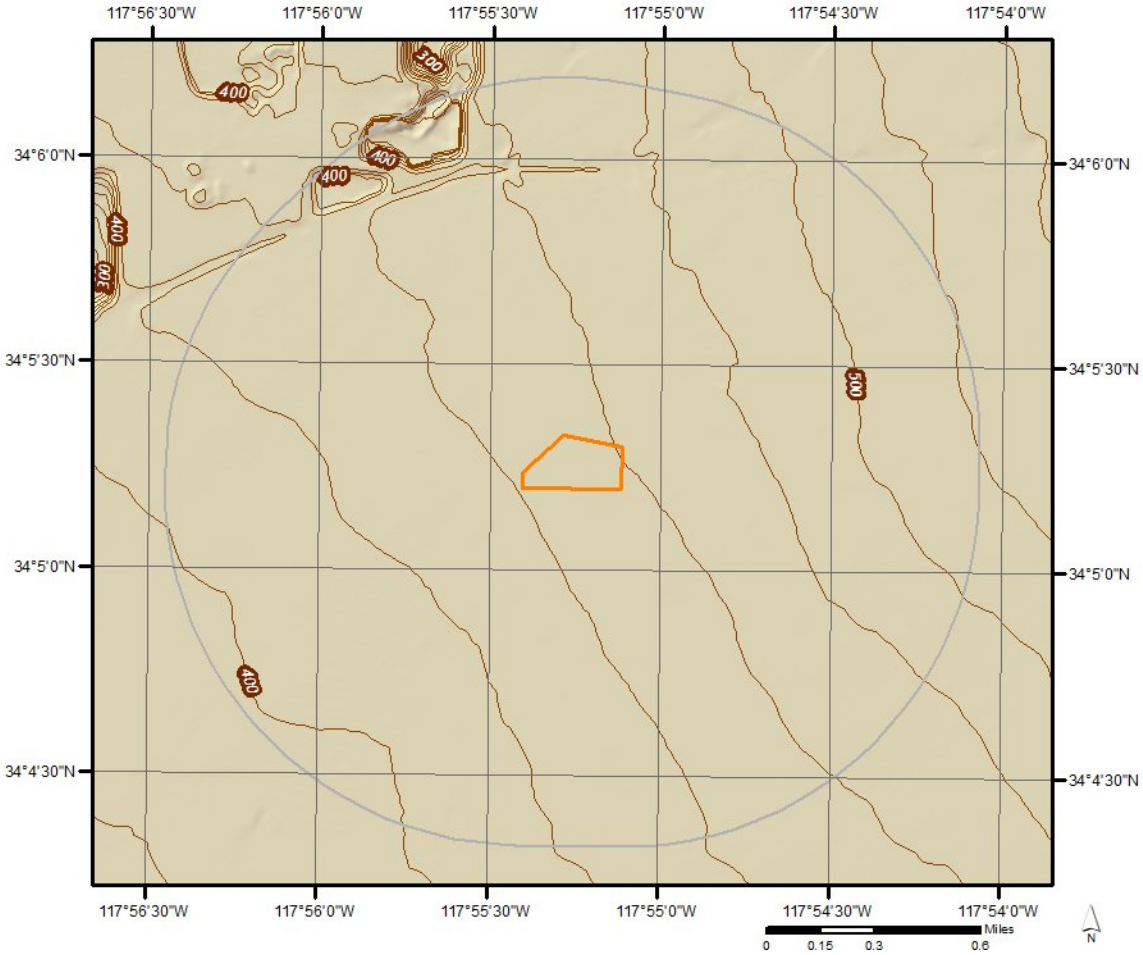
ERIS

Topographic Information

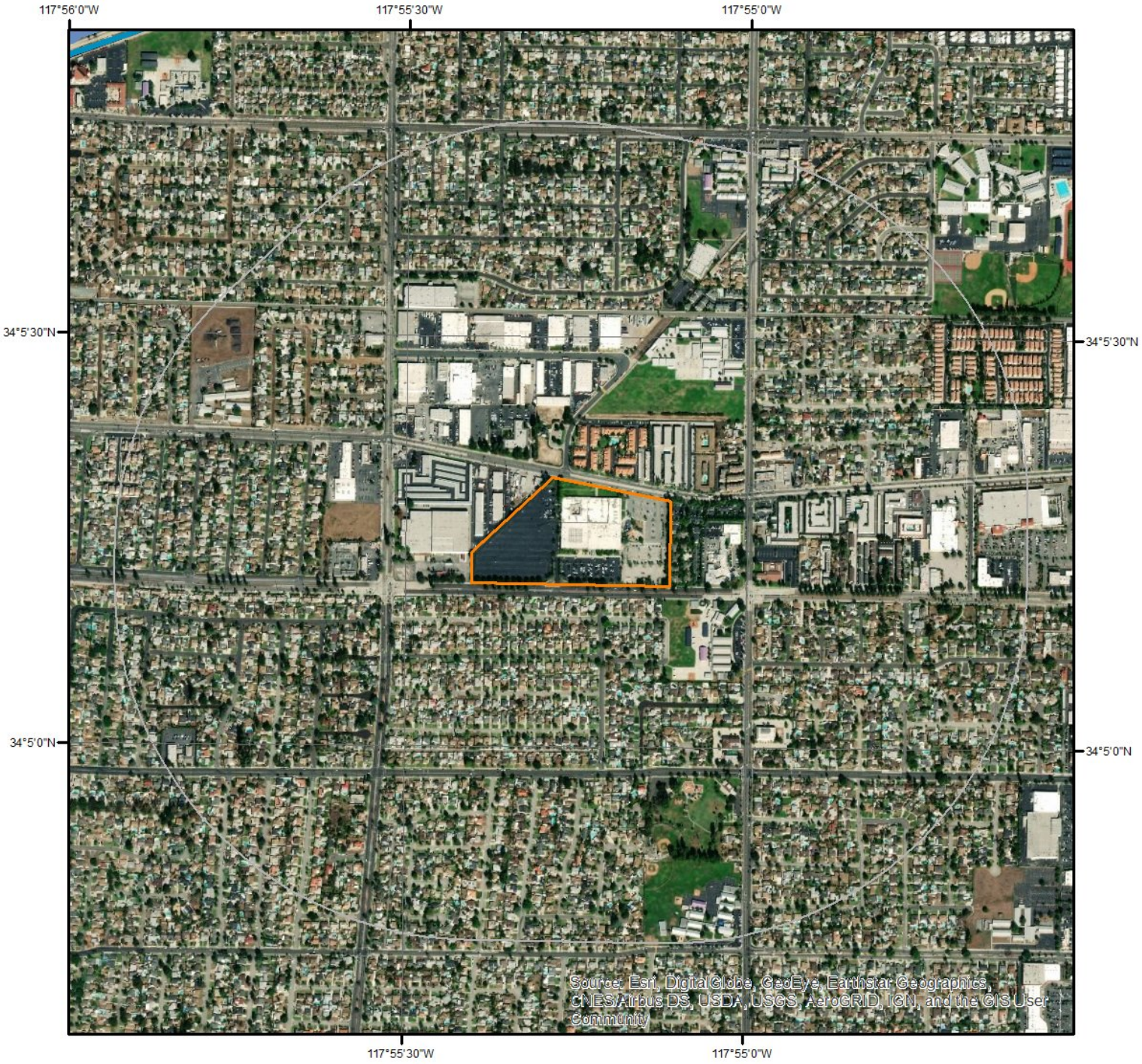
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation:	453.43 ft
Slope Direction:	W



Hydrologic Information



Wetland

0 0.075 0.15 0.3 Miles

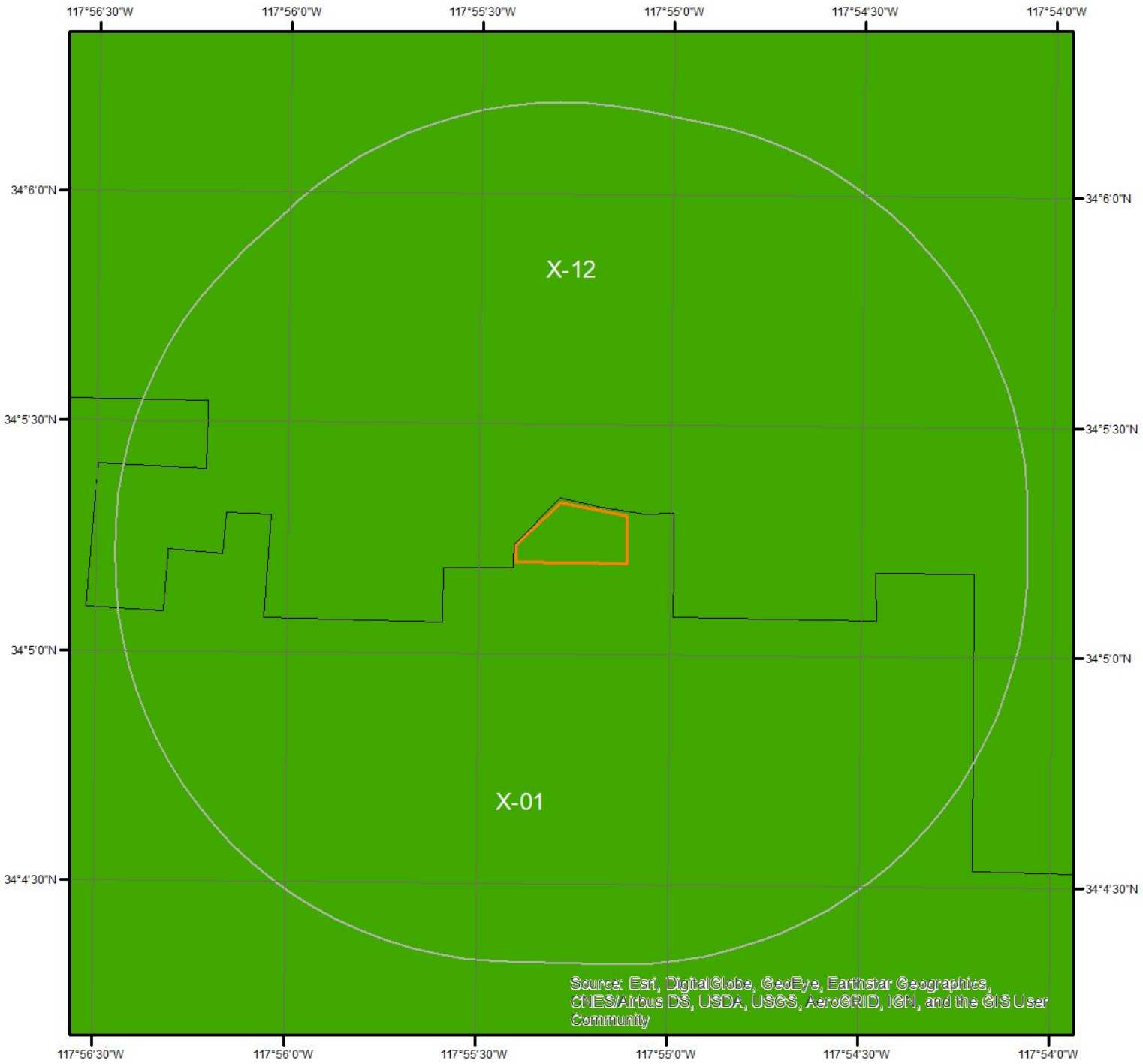
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Hydrologic Information



Flood Hazard Zones

Miles
0 0.2 0.4

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

N

06037C1700F

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.

Available FIRM Panels in area:	06037C1700F(effective:2008-09-26)

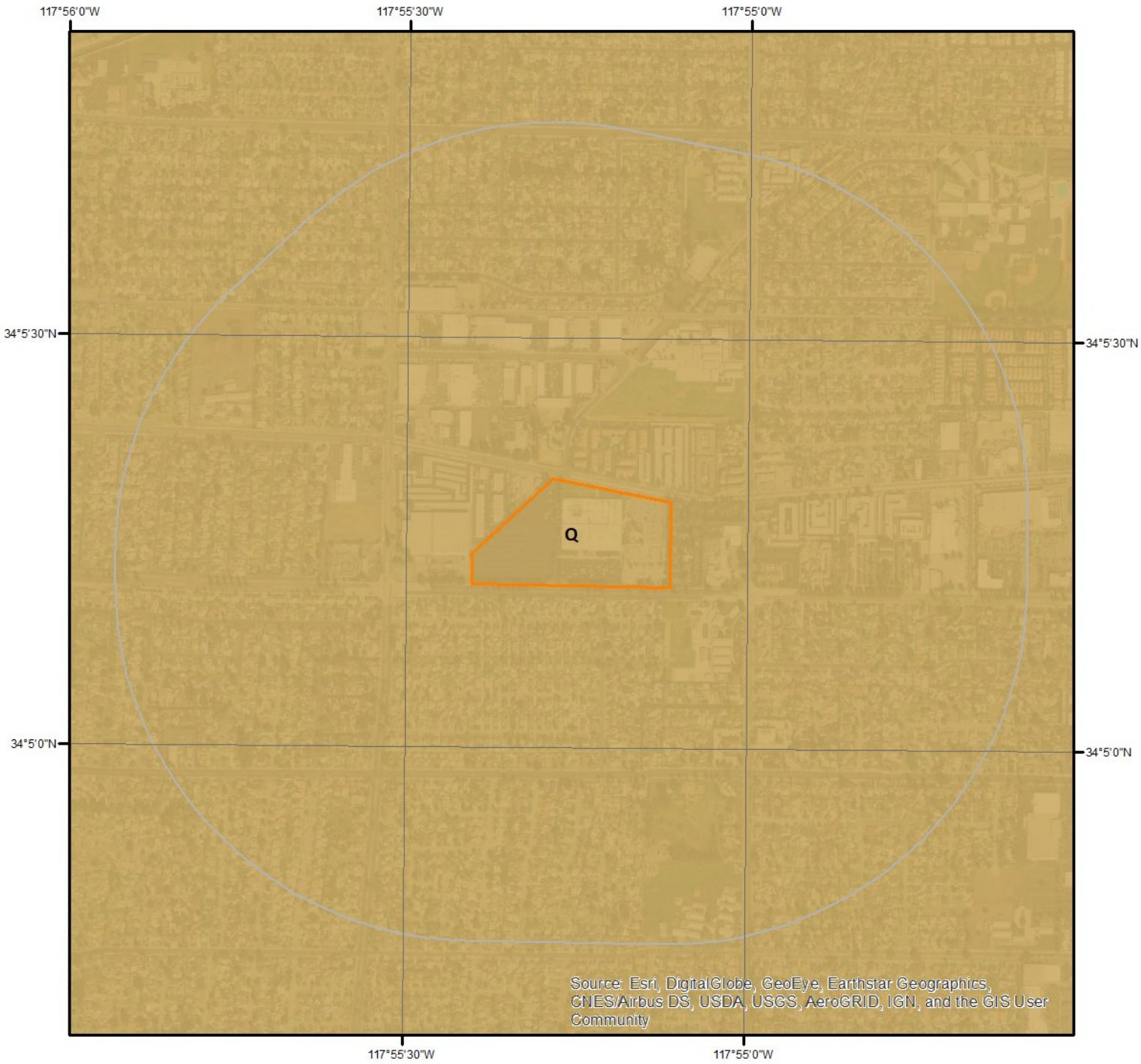
Flood Zone X-01

Zone:	X
Zone subtype:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



0 0.2 0.4 Miles

N

Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

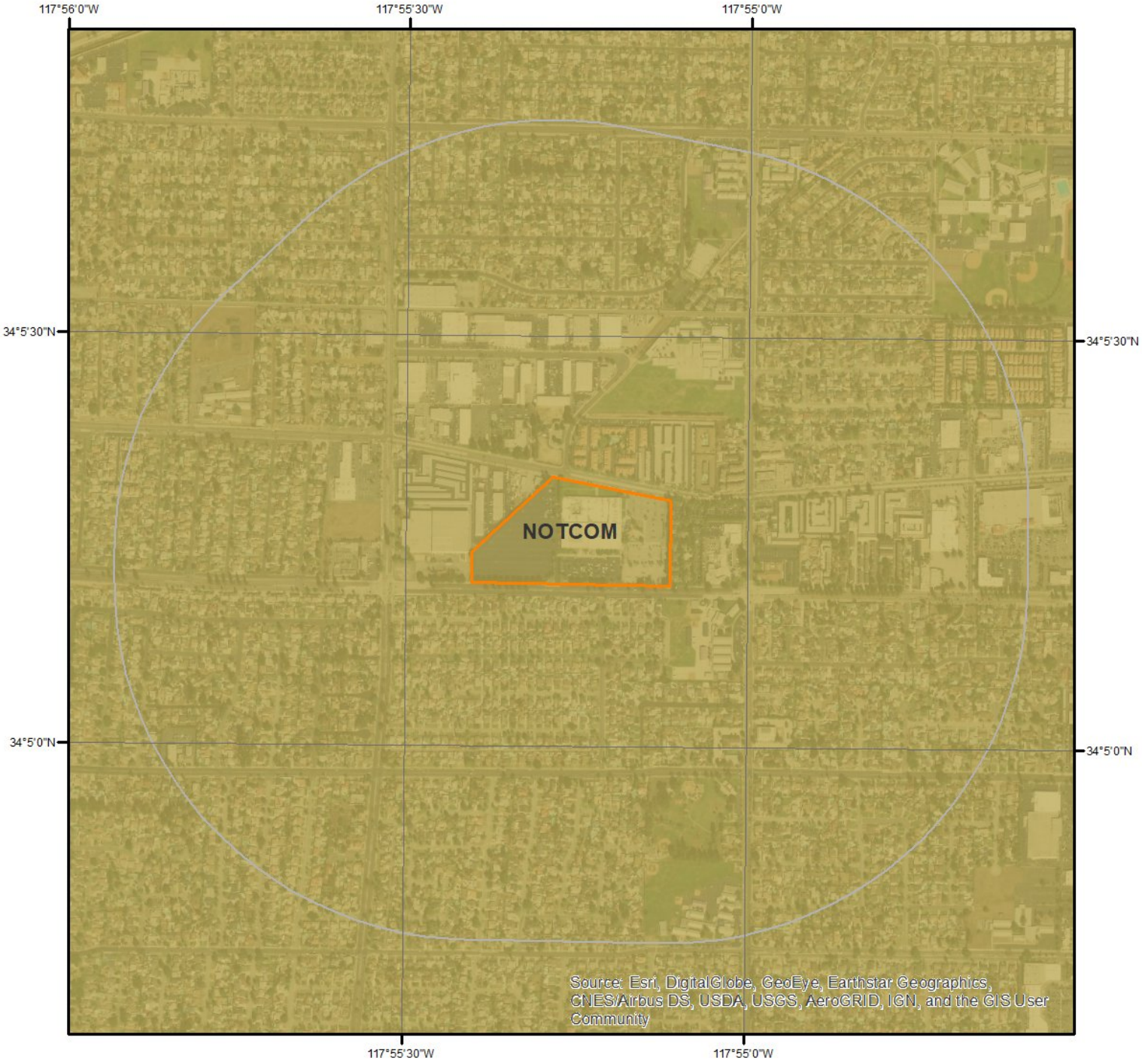
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Q

Unit Name:	Quaternary alluvium and marine deposits
Unit Age:	Pliocene to Holocene
Primary Rock Type:	alluvium
Secondary Rock Type:	terrace
Unit Description:	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Soil Information



SSURGO Soils

0 0.2 0.4 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Soil Information

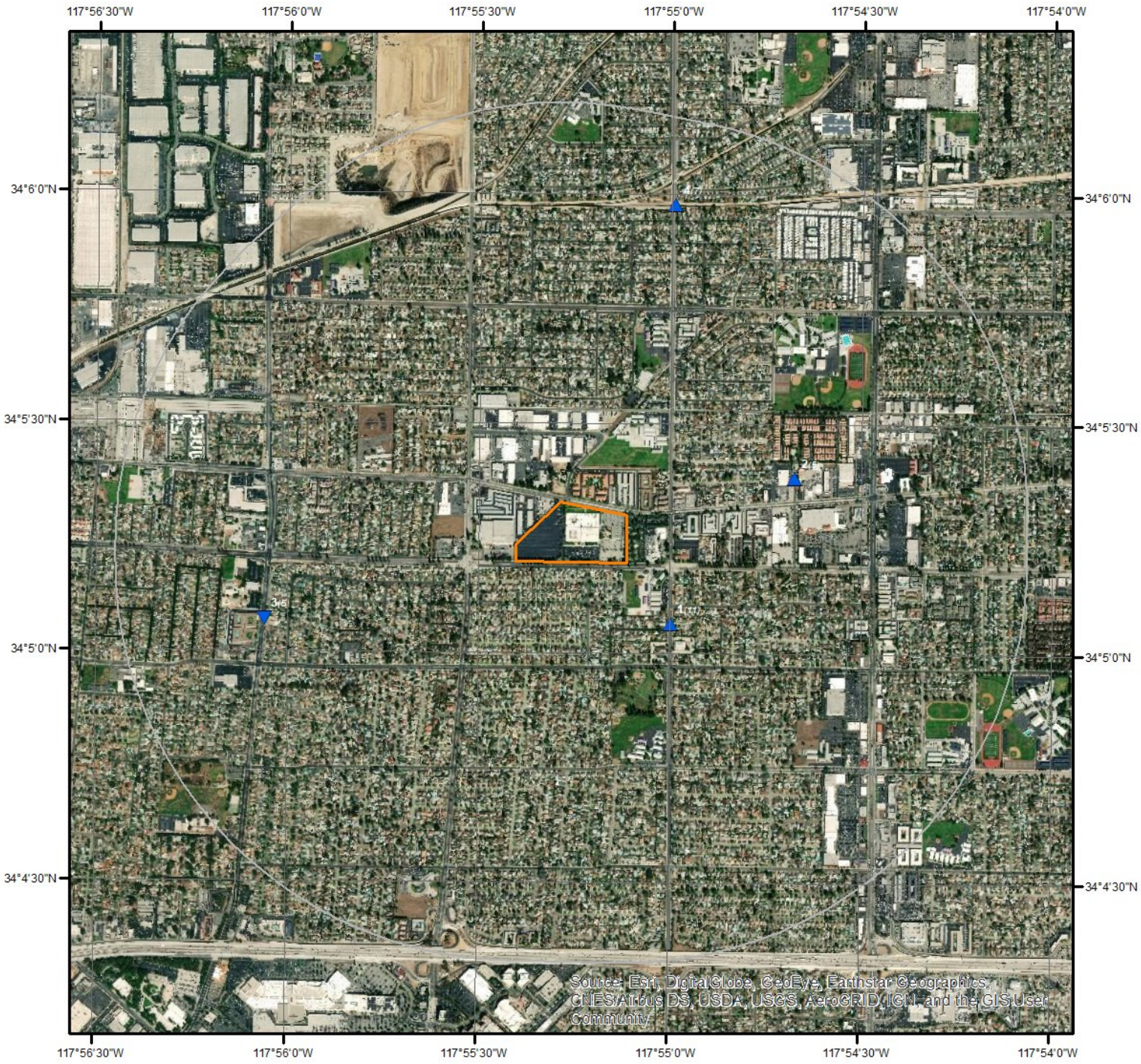
The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit NOTCOM (100.0%)

Map Unit Name: No Digital Data Available

No more attributes available for this map unit

Wells and Additional Sources



Wells & Additional Sources

- ▲ Sites with Higher Elevation
- ■ Sites with Same Elevation
- ▼ Sites with Lower Elevation
- ○ Sites with Unknown Elevation

N

0 0.15 0.3 0.6 Miles

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
	No records found		

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
	No records found		

USGS National Water Information System

Map Key	ID	Distance (ft)	Direction
	No records found		

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Periodic Groundwater Level Measurement Locations

Map Key	ID	Distance (ft)	Direction
	No records found		

Well Completion Reports

Map Key	WCR No	Distance (ft)	Direction
1	WCR1910-000159	999.09	SE
1	WCR1993-012533	999.09	SE
1	WCR2002-011965	999.09	SE
1	WCR1993-012529	999.09	SE
1	WCR2001-011395	999.09	SE
1	WCR1900-000050	999.09	SE
1	WCR1993-012530	999.09	SE
1	WCR1993-012532	999.09	SE
1	WCR1910-000078	999.09	SE
1	WCR1993-012534	999.09	SE
1	WCR1993-012531	999.09	SE
2	WCR1995-011843	2,263.47	ENE
2	WCR1995-011844	2,263.47	ENE
2	WCR1995-011840	2,263.47	ENE
2	WCR1995-011841	2,263.47	ENE
2	WCR1995-011842	2,263.47	ENE
3	WCR2001-013767	3,396.05	WSW

Wells and Additional Sources Summary

3	WCR2006-009354	3,396.05	WSW
3	WCR0308768	3,396.05	WSW
3	WCR2005-014120	3,396.05	WSW
3	WCR0120710	3,396.05	WSW
4	WCR1994-013145	4,139.83	NNE
4	WCR1920-000303	4,139.83	NNE
4	WCR0030050	4,139.83	NNE
4	WCR1994-013144	4,139.83	NNE
4	WCR0049523	4,139.83	NNE
4	WCR2001-011391	4,139.83	NNE
4	WCR2005-014119	4,139.83	NNE

Wells and Additional Sources Detail Report

Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1910-000159	Casing Diameter:	None
Legacy Log No:	C358O	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1910-11-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	271.0	Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	BADILLO AVE, LARK ELLEN AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1993-012533	Casing Diameter:	None
Legacy Log No:	491042	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-28 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W

Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR2002-011965	Casing Diameter:	2
Legacy Log No:	763732	Fluid:	Not Available at Conversion
APN:	8458-16-1	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	2002-02-15 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Direct Rotary	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	250.0	Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Cathodic	Vertical Datum:	None
Top Perforated Int:	0	Decimal Latitude:	34.0844
Bottom Perf Intvl:	250	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	1061 Badillo Street		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

Wells and Additional Sources Detail Report

WCR No:	WCR1993-012529	Casing Diameter:	None
Legacy Log No:	491038	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-27 00:00:00.000000000	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR2001-011395	Casing Diameter:	None
Legacy Log No:	None	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None

Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	None		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1900-000050	Casing Diameter:	10
Legacy Log No:	346	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1900-07-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	300.0	Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	BALDWIN PARK, LARK ELLEN AVE, ROWLAND AV		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1993-012530	Casing Diameter:	None
Legacy Log No:	491037	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None

Wells and Additional Sources Detail Report

Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-27 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1993-012532	Casing Diameter:	None
Legacy Log No:	491041	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-28 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		

Wells and Additional Sources Detail Report

City: Covina
Region Office: DWR Southern Region Office
Well Location: San Bernardino Road
Other Observations: None

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1910-000078	Casing Diameter:	None
Legacy Log No:	358	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1910-11-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	271.0	Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	BADILLO AVE, LARK ELLEN AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1993-012534	Casing Diameter:	None
Legacy Log No:	491040	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-28 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles

Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	P8		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SE	0.19	999.09	456.41	WATER WELLS

WCR No:	WCR1993-012531	Casing Diameter:	None
Legacy Log No:	491039	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1993-01-28 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	15
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.0844
Bottom Perf Intvl:	None	Decimal Longitude:	-117.91659
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	ENE	0.43	2,263.47	484.86	WATER WELLS

WCR No:	WCR1995-011843	Casing Diameter:	1
Legacy Log No:	559838	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1995-11-09 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Auger	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	61.0	Range:	10W
Test Type:	None	Section:	None
Pump Test Length:	None	LL Accuracy:	None
Mth of Determ LL:	None	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	0	Decimal Latitude:	
Bottom Perf Intvl:	31	Decimal Longitude:	
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	USPS 545 N RIMSDALE AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	ENE	0.43	2,263.47	484.86	WATER WELLS

WCR No:	WCR1995-011844	Casing Diameter:	1
Legacy Log No:	559837	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1995-11-09 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	61.0	Range:	10W
Test Type:	None	Section:	None
Pump Test Length:	None	LL Accuracy:	None
Mth of Determ LL:	None	Baseline Meridian:	San Bernardino

Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	40	Decimal Latitude:	
Bottom Perf Intvl:	61	Decimal Longitude:	
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	USPS 545 N RIMSDALE AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	ENE	0.43	2,263.47	484.86	WATER WELLS

WCR No:	WCR1995-011840	Casing Diameter:	1
Legacy Log No:	559832	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1995-11-10 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Auger	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	61.0	Range:	10W
Test Type:	None	Section:	None
Pump Test Length:	None	LL Accuracy:	None
Mth of Determ LL:	None	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	10	Decimal Latitude:	
Bottom Perf Intvl:	31	Decimal Longitude:	
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	USPS 545 N RIMSDALE AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	ENE	0.43	2,263.47	484.86	WATER WELLS

WCR No:	WCR1995-011841	Casing Diameter:	1
Legacy Log No:	559831	Fluid:	None

Wells and Additional Sources Detail Report

APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1995-11-10 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	61.0	Range:	10W
Test Type:	None	Section:	None
Pump Test Length:	None	LL Accuracy:	None
Mth of Determ LL:	None	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	31	Decimal Latitude:	
Bottom Perf Intvl:	61	Decimal Longitude:	
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	USPS 545 N RIMSDALE AVE		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	ENE	0.43	2,263.47	484.86	WATER WELLS

WCR No:	WCR1995-011842	Casing Diameter:	2
Legacy Log No:	559830	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1995-11-08 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Auger	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	70.0	Range:	10W
Test Type:	None	Section:	None
Pump Test Length:	None	LL Accuracy:	None
Mth of Determ LL:	None	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	0	Decimal Latitude:	
Bottom Perf Intvl:	70	Decimal Longitude:	
Own Assign Well No:	None		

Wells and Additional Sources Detail Report

Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program
Record Type:	WellCompletion/New/Production or Monitoring/NA
City:	Covina
Region Office:	DWR Southern Region Office
Well Location:	USPS 545 N RIMSDALE AVE
Other Observations:	None

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.64	3,396.05	414.43	WATER WELLS

WCR No:	WCR2001-013767	Casing Diameter:	2
Legacy Log No:	758789	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	2001-08-10 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Direct Rotary	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	160.0	Range:	10W
Test Type:	None	Section:	16
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Cathodic	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.08449
Bottom Perf Intvl:	None	Decimal Longitude:	-117.93429
Own Assign Well No:	Puente - Morada		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	West Covina		
Region Office:	DWR Southern Region Office		
Well Location:	s/o Puente Ave, e/o Morada Ave		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.64	3,396.05	414.43	WATER WELLS

WCR No:	WCR2006-009354	Casing Diameter:	2
Legacy Log No:	1098001	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	2006-02-02 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None

Wells and Additional Sources Detail Report

Received Date:		Well Yield Unit:	None
Drilling Method:	Direct Rotary	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	400.0	Range:	10W
Test Type:	None	Section:	16
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Cathodic	Vertical Datum:	None
Top Perforated Int:	220	Decimal Latitude:	34.08449
Bottom Perf Intvl:	400	Decimal Longitude:	-117.93429
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	West Covina		
Region Office:	DWR Southern Region Office		
Well Location:	12221/2 Rowland Avenue		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.64	3,396.05	414.43	WATER WELLS

WCR No:	WCR0308768	Casing Diameter:	None
Legacy Log No:	E031371	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	16
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.08449
Bottom Perf Intvl:	None	Decimal Longitude:	-117.93429
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	None		

Other Observations: None

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.64	3,396.05	414.43	WATER WELLS

WCR No:	WCR2005-014120	Casing Diameter:	None
Legacy Log No:	e031371	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	2005-06-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	16
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.08449
Bottom Perf Intvl:	None	Decimal Longitude:	-117.93429
Own Assign Well No:	Azusa Valley 1		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	16108 E San Bernardino Road		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.64	3,396.05	414.43	WATER WELLS

WCR No:	WCR0120710	Casing Diameter:	None
Legacy Log No:	None	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	16

Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.08449
Bottom Perf Intvl:	None	Decimal Longitude:	-117.93429
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	None		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR1994-013145	Casing Diameter:	4
Legacy Log No:	471911	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1994-10-14 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Auger	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	26.0	Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	16	Decimal Latitude:	34.09961
Bottom Perf Intvl:	26	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	City of Industry		
Region Office:	DWR Southern Region Office		
Well Location:	CHESTNUT ST E/O AZUSA		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

Wells and Additional Sources Detail Report

WCR No:	WCR1920-000303	Casing Diameter:	26
Legacy Log No:	C336G4	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1920-01-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	411.0	Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.09961
Bottom Perf Intvl:	None	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	IRWINDALE AVE, WALNUT AVE, BONITA		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR0030050	Casing Diameter:	None
Legacy Log No:	None	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.09961

Bottom Perf Intvl:	None	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	None		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR1994-013144	Casing Diameter:	4
Legacy Log No:	471912	Fluid:	Not Available at Conversion
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	1994-10-13 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	Auger	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:	123.0	Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	Monitoring	Vertical Datum:	None
Top Perforated Int:	107	Decimal Latitude:	34.09961
Bottom Perf Intvl:	118	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	City of Industry		
Region Office:	DWR Southern Region Office		
Well Location:	CHESTNUT ST E/O AZUSA		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR0049523	Casing Diameter:	None
Legacy Log No:	E031372	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None

Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.09961
Bottom Perf Intvl:	None	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		
Region Office:	DWR Southern Region Office		
Well Location:	None		
Other Observations:	None		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR2001-011391	Casing Diameter:	None
Legacy Log No:	None	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:		Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.09961
Bottom Perf Intvl:	None	Decimal Longitude:	-117.9165
Own Assign Well No:	None		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/New/Production or Monitoring/NA		
City:	None		

Wells and Additional Sources Detail Report

Region Office:	DWR Southern Region Office
Well Location:	None
Other Observations:	None

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NNE	0.78	4,139.83	481.45	WATER WELLS

WCR No:	WCR2005-014119	Casing Diameter:	None
Legacy Log No:	e031372	Fluid:	None
APN:	None	Static Water Level:	None
Permit No:	None	Total Draw Down:	None
Permit Date:	None	Elevation Accuracy:	None
Date Work Ended:	2005-06-01 00:00:00	Elev Determine Meth:	None
Workflow Status:	None	Well Yield:	None
Received Date:		Well Yield Unit:	None
Drilling Method:	None	County Name:	Los Angeles
Total Drill Depth:	None	Township:	01S
Total Complete Depth:		Range:	10W
Test Type:	None	Section:	10
Pump Test Length:	None	LL Accuracy:	Centroid of Section
Mth of Determ LL:	Derived from TRS	Baseline Meridian:	San Bernardino
Ground Surf Elev:	None	Horizontal Datum:	None
Planned Former Use:	None	Vertical Datum:	None
Top Perforated Int:	None	Decimal Latitude:	34.09961
Bottom Perf Intvl:	None	Decimal Longitude:	-117.9165
Own Assign Well No:	Azusa Valley 2		
Local Permit Agency:	LA County Department of Public Health, Department of Health Services, Drinking Water Program		
Record Type:	WellCompletion/Destruction/NA/NA		
City:	Covina		
Region Office:	DWR Southern Region Office		
Well Location:	16706 E Cypress Street		
Other Observations:	None		

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *LOS ANGELES* County: **2**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *LOS ANGELES* County

No Measures/Homes:	69
Geometric Mean:	0.4
Arithmetic Mean:	0.7
Median:	0.5
Standard Deviation:	1
Maximum:	5.6
% >4 pCi/L:	1
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Oil and Gas Wells — **OGW**

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of

Appendix

Oil, Gas and Geothermal Resources.

Periodic Groundwater Level Measurement Locations **MONITOR WELLS**

Locations of groundwater level monitoring wells in the Department of Water Resources (DWR)'s Periodic Groundwater Levels dataset. The DWR Periodic Groundwater Levels dataset contains seasonal and long-term groundwater level measurements collected by the Department of Water Resources and cooperating agencies.

Well Completion Reports **WATER WELLS**

List of wells from the Well Completion Reports data made available by the California Department of Water Resources' (DWR) Online System for Well Completion Reports (OSWCR). Please note that the majority of well completion reports have been spatially registered to the center of the 1x1 mile Public Land Survey System section that the well is located in.

Liability Notice

Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS Information Inc. disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

ENVIRONMENTAL RISK INFORMATION SERVICES

TOPOGRAPHIC MAPS

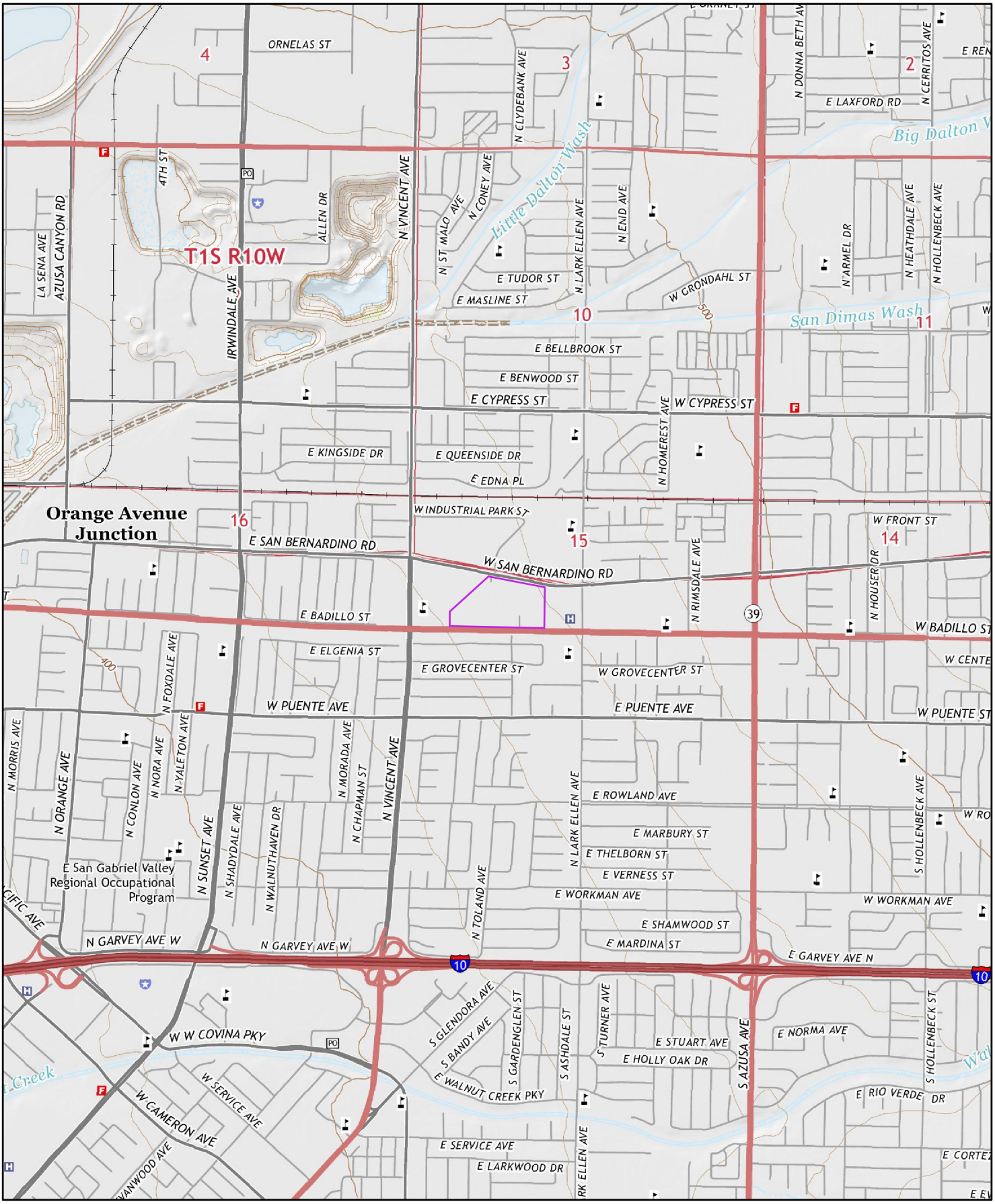
Project Property:	PNR0651FW1/267A (DAX9) 1211 Badillo Street West Covina CA 91790
Project No:	PNR0651FW1/267A (DAX9)
Requested By:	Geosyntec Consultants
Order No:	20200319269
Date Completed:	March 20, 2020

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2015	7.5
1981	7.5
1972	7.5
1966	7.5
1953	7.5
1927	7.5
1904	15
1898	15
1897	15
1894	15

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc.(in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS', using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.



2015

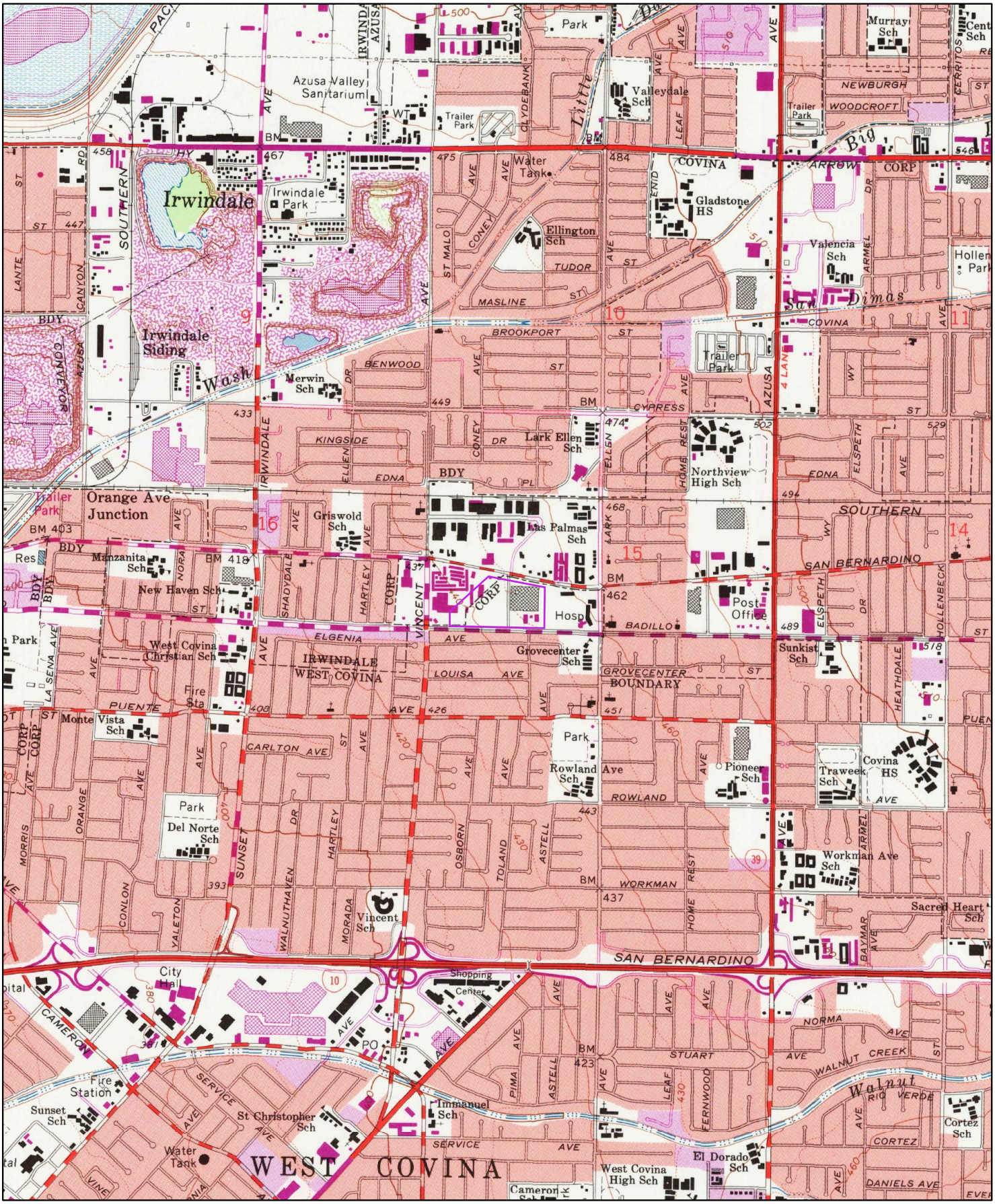
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Baldwin Park,CA

Source: USGS 7.5 Minute Topographic Map

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES



1981

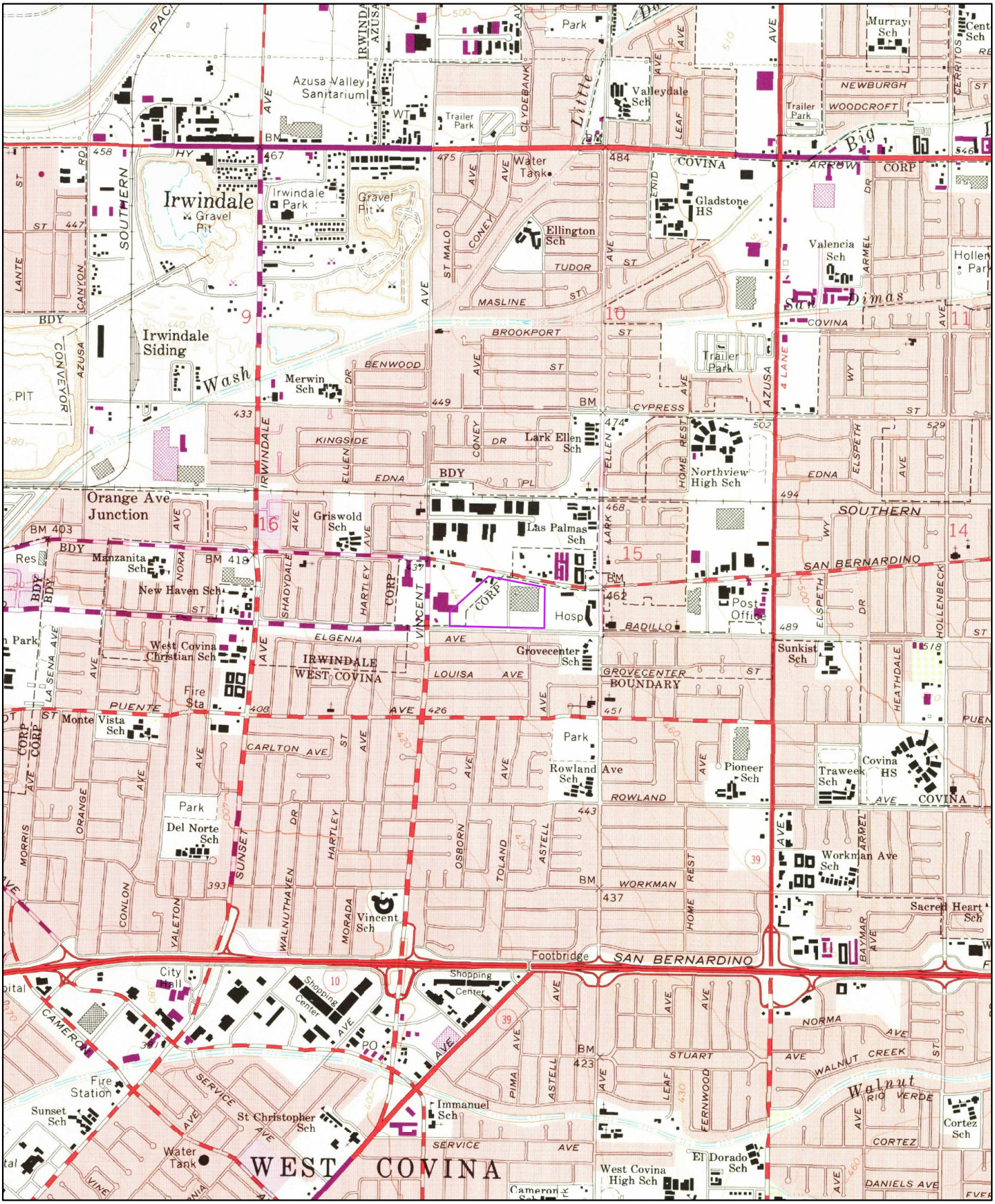
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Baldwin Park,CA

Source: USGS 7.5 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1972

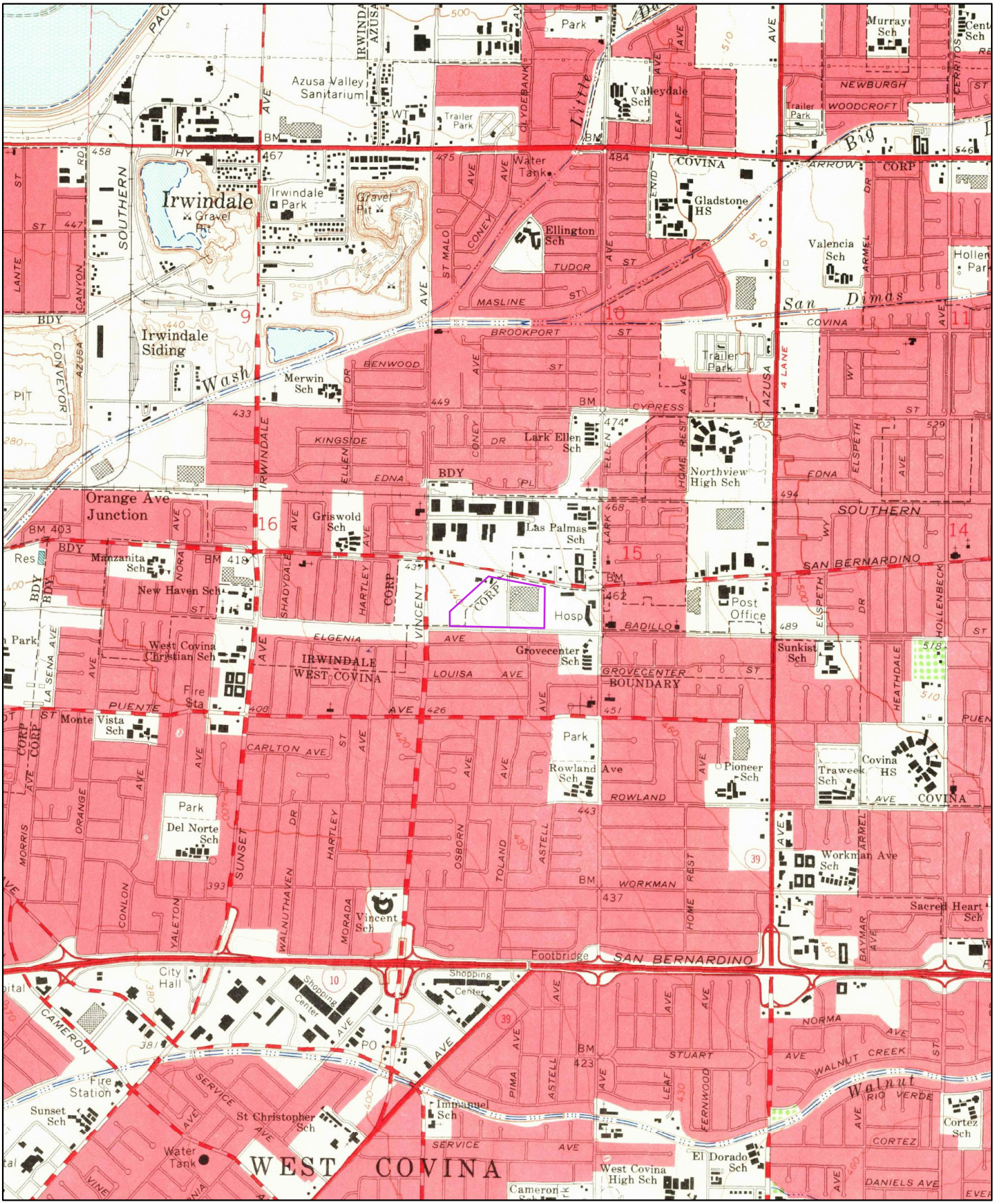
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Baldwin Park,CA

Source: USGS 7.5 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1966

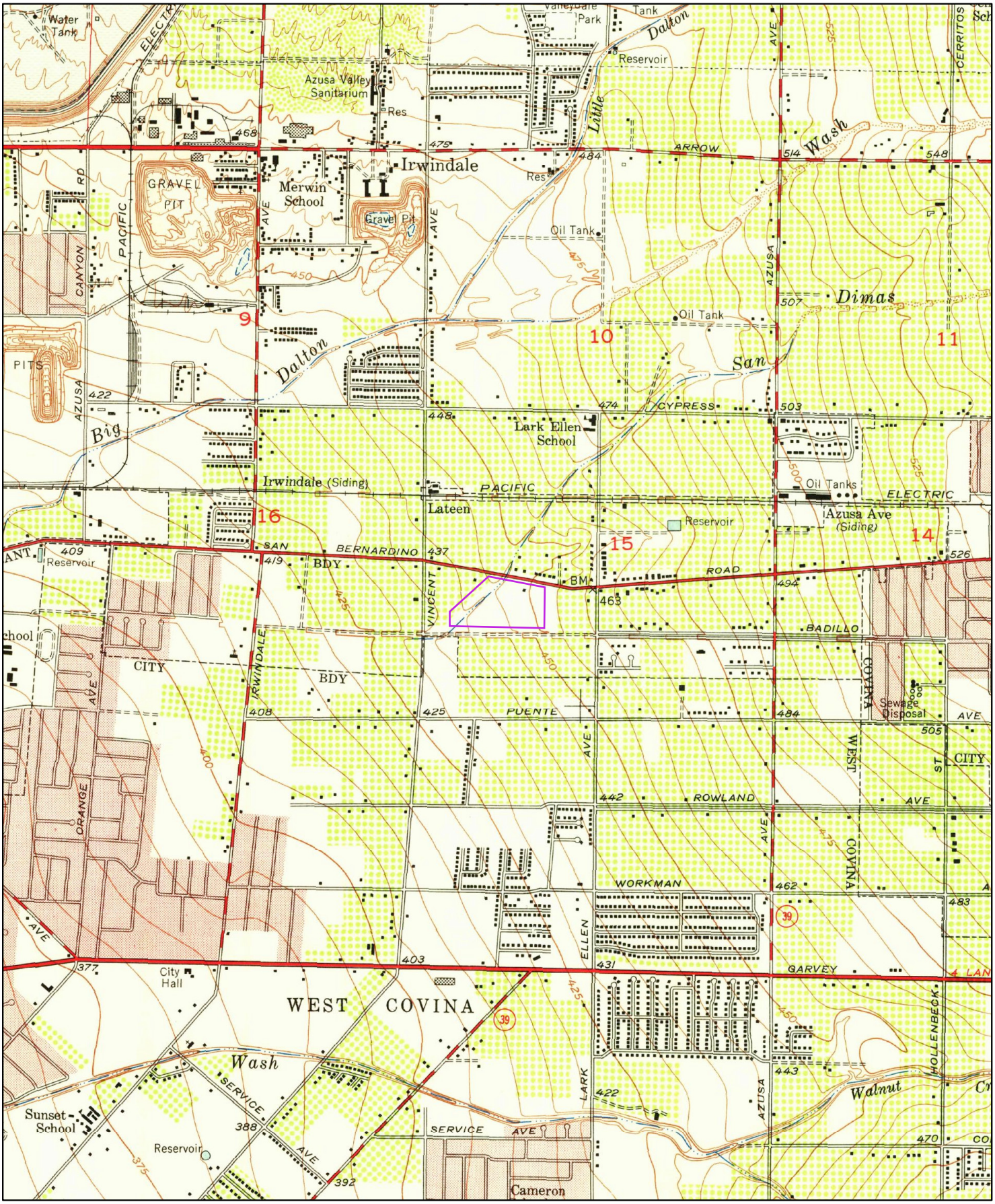
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Baldwin Park,CA

Source: USGS 7.5 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1953

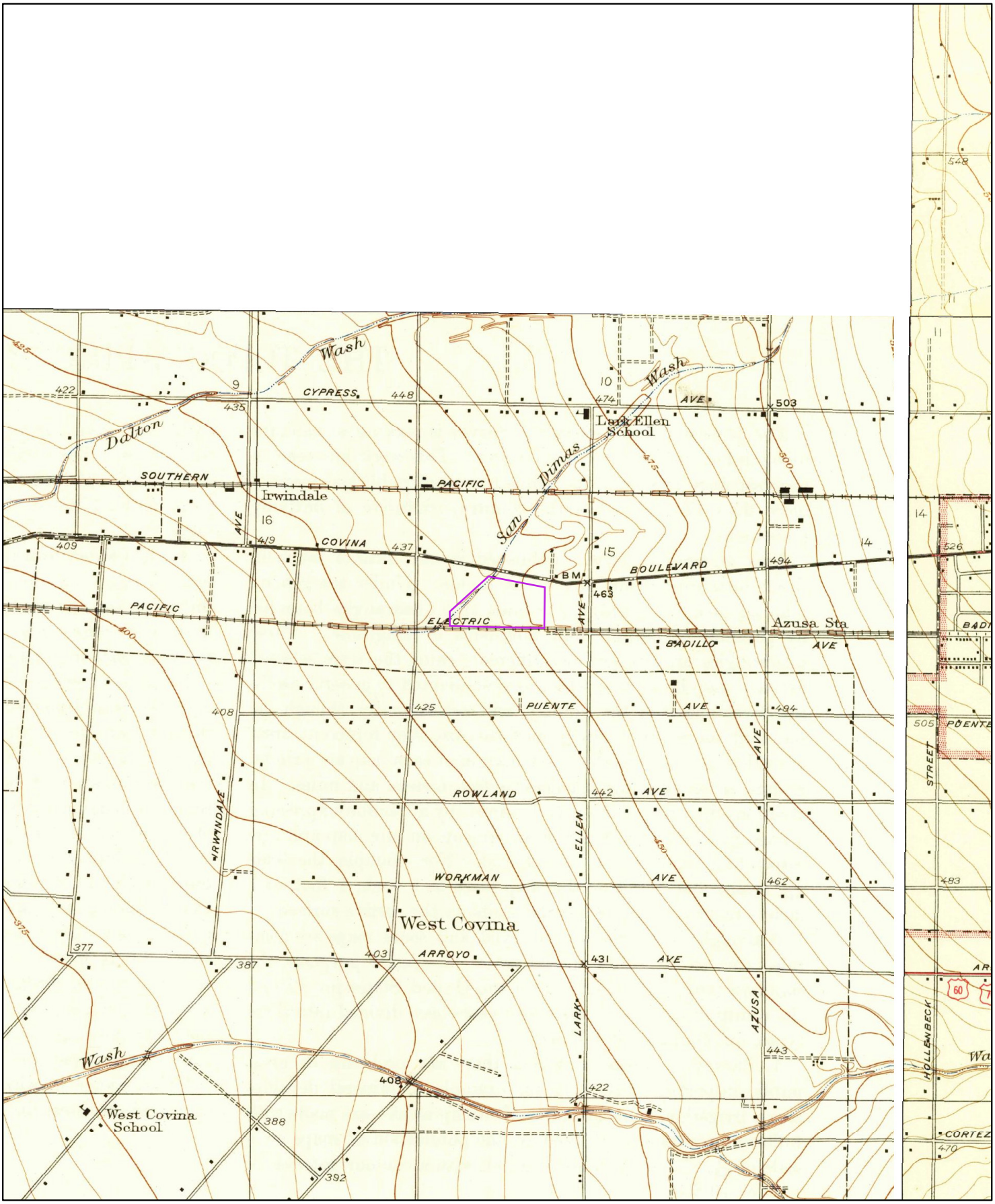
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Baldwin Park,CA

Source: USGS 7.5 Minute Topographic Map

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES



1927

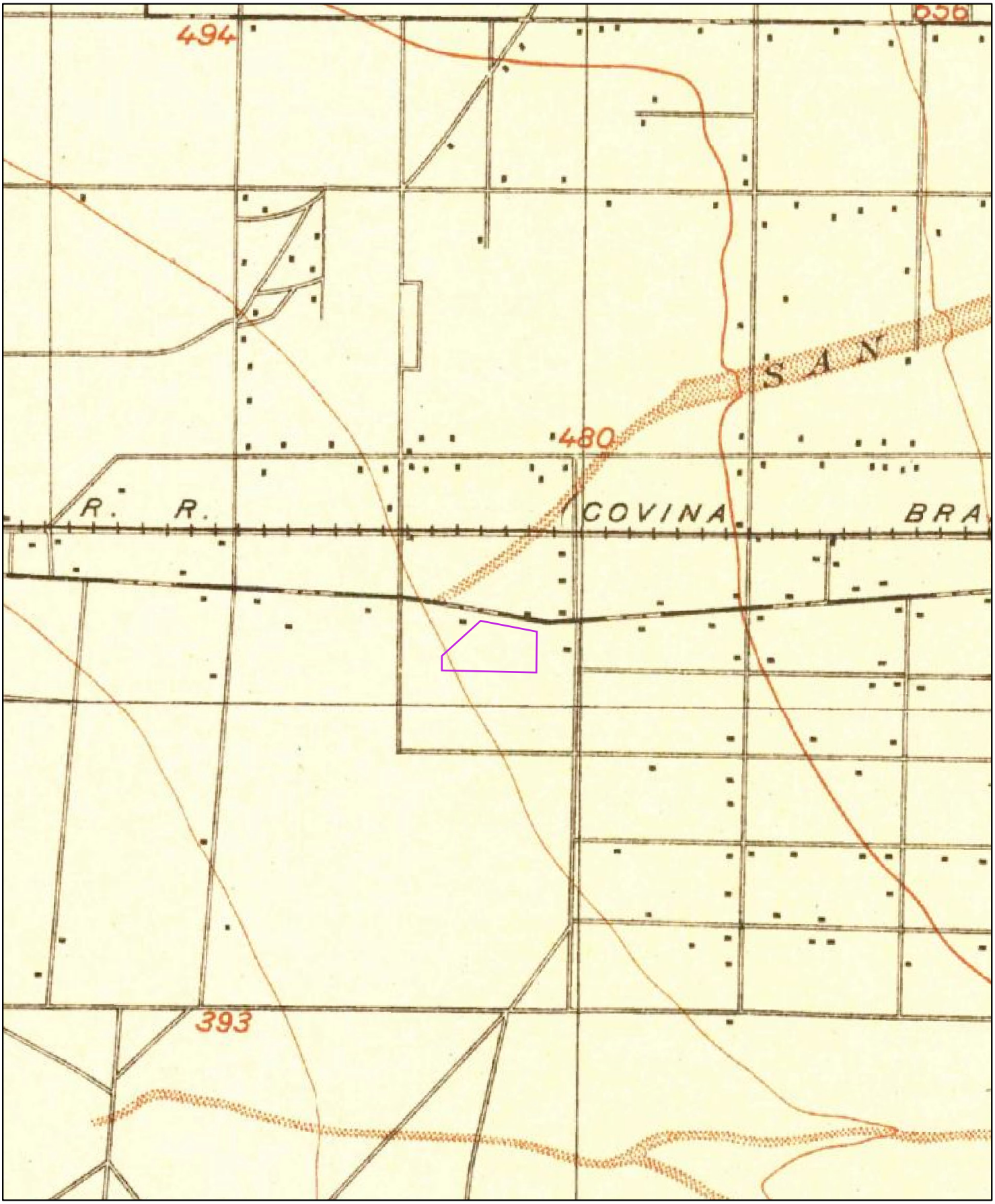
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Puente,CA

Source: USGS 7.5 Minute Topographic Map

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES



1904

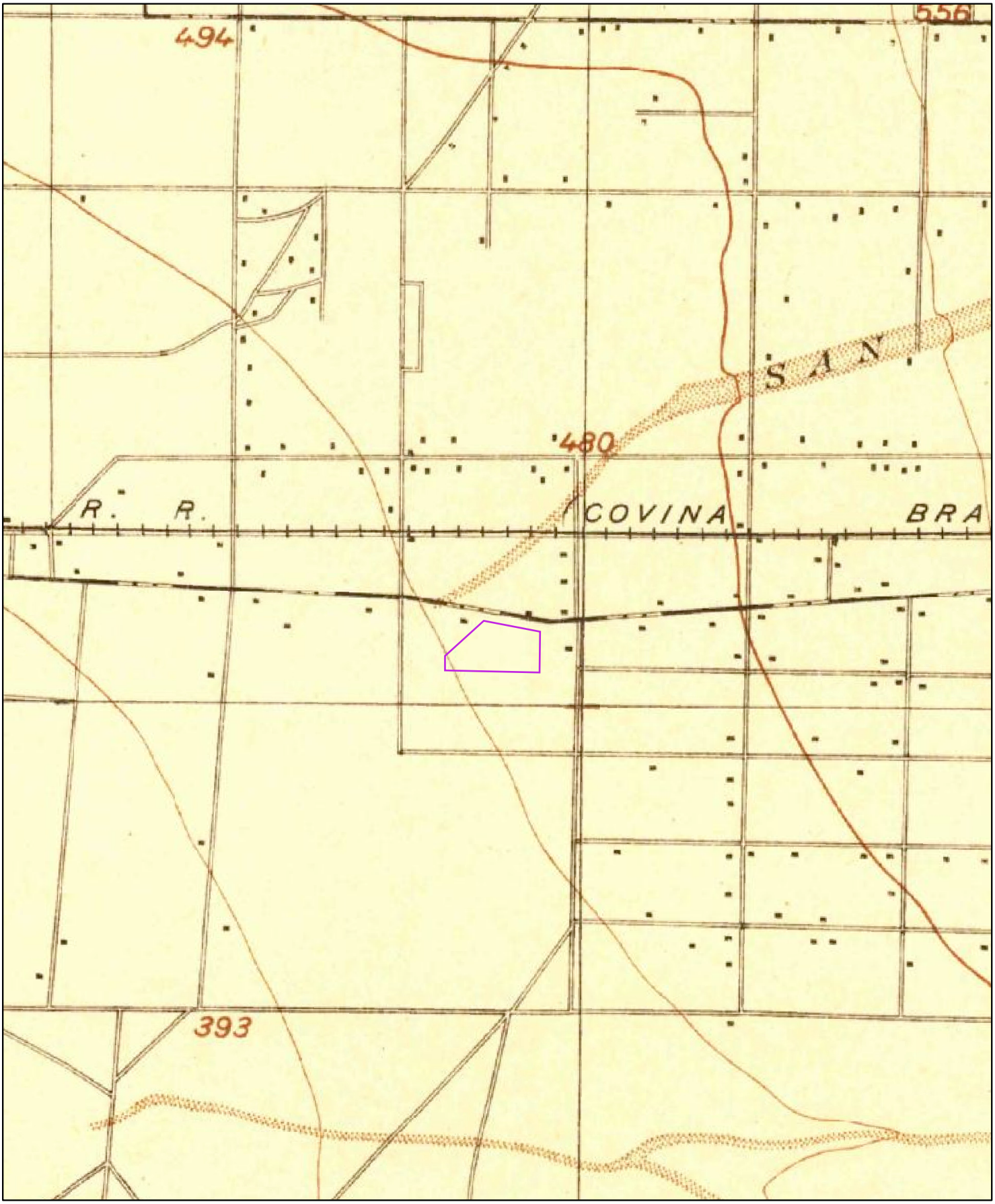
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Pomona,CA

Source: USGS 15 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1898

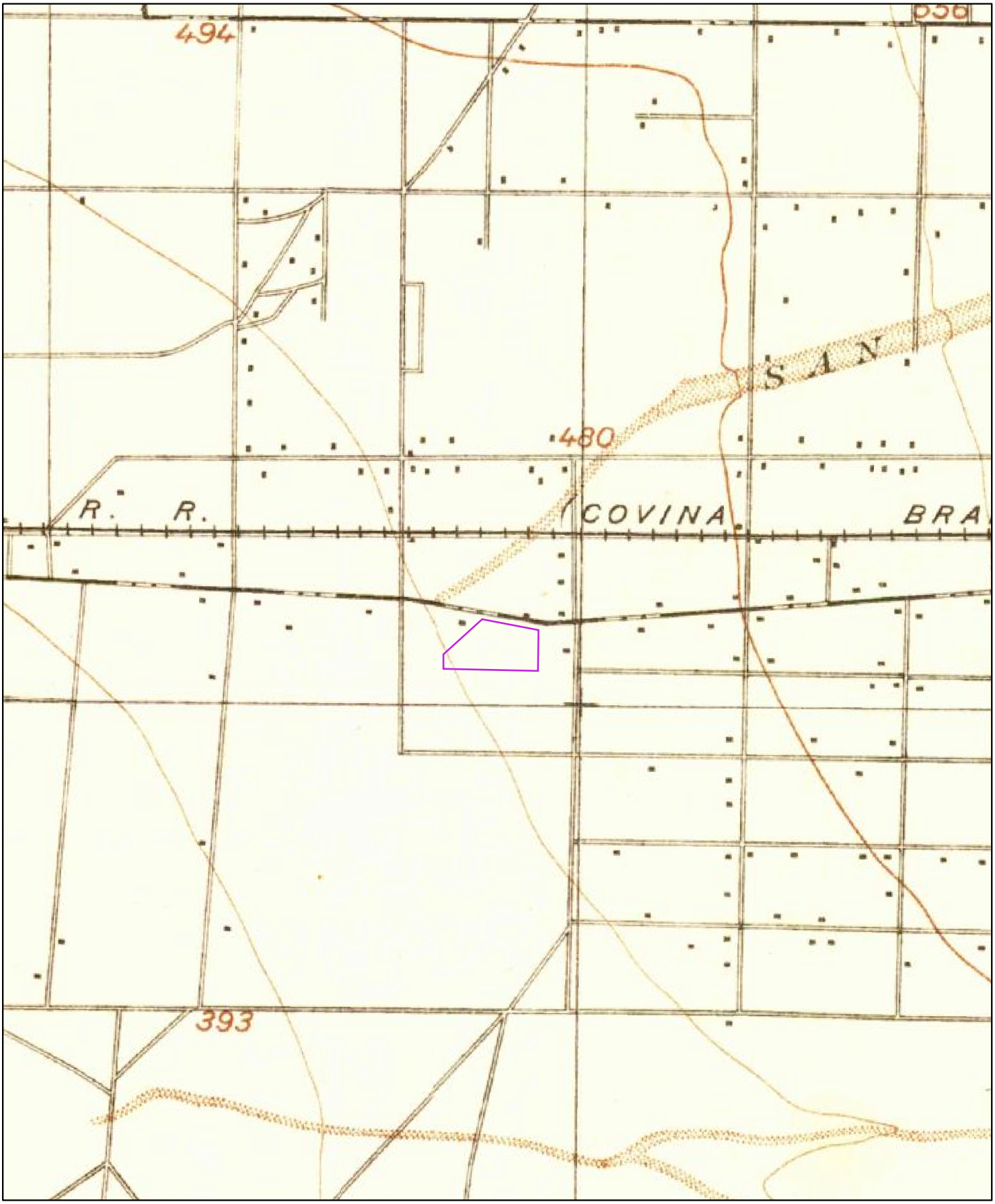
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Pomona,CA

Source: USGS 15 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1897

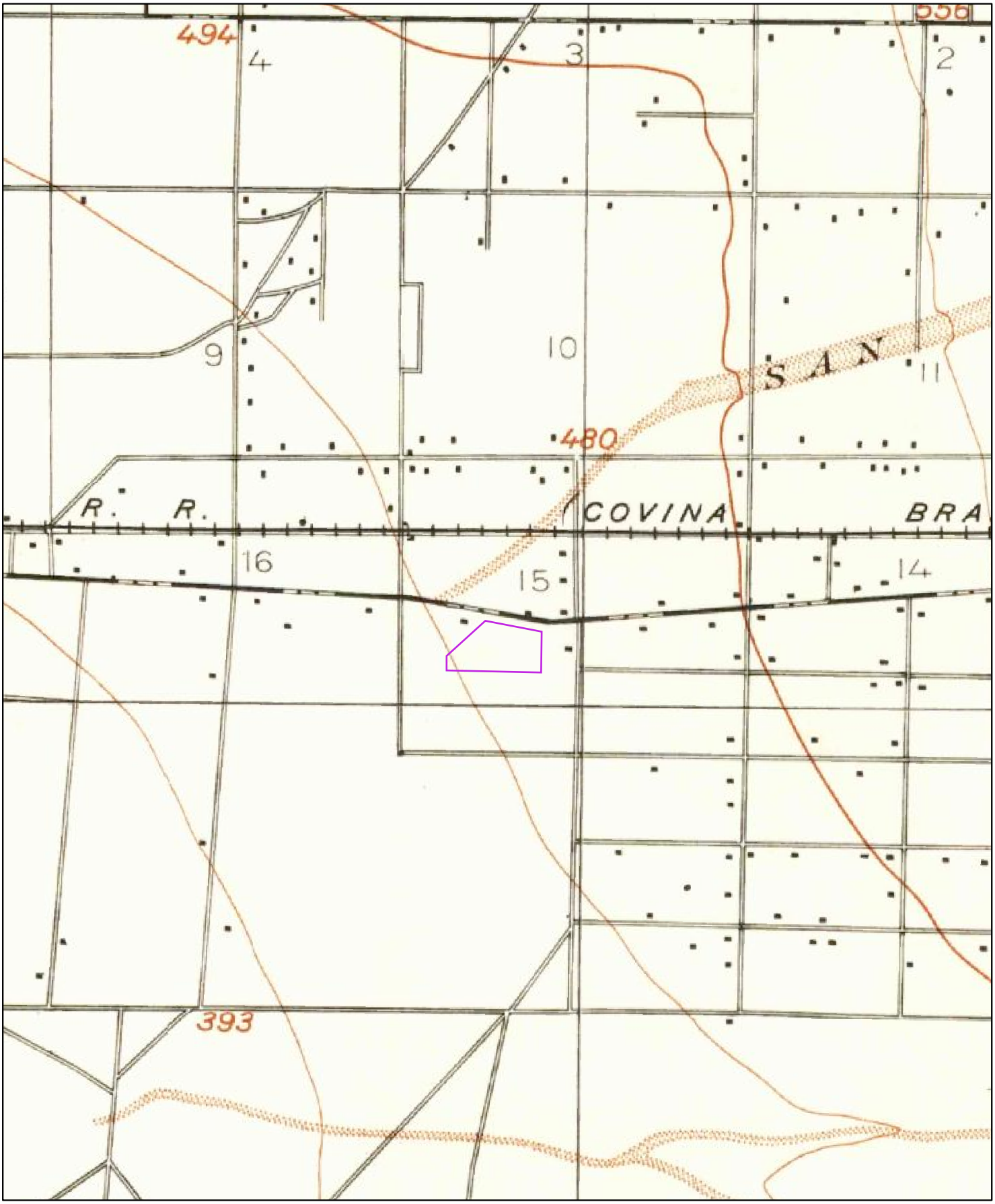
0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Pomona,CA

Source: USGS 15 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



1894

0 0.2 0.4 0.8 Miles

Order No. 20200319269

Quadrangle(s): Pomona,CA

Source: USGS 15 Minute Topographic Map

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

APPENDIX F
Environmental Professional Resumes

Environmental Professional Qualifications

Kimberly Brandt, P.G., C.Hg. (CA)

Ms. Brandt has over 20 years' experience in consulting, with emphases on strategic planning, management, and technical focus of characterization and remediation of environmental and hazardous waste sites throughout California. She has worked a variety of projects, including single- and multi-property Phase I Environmental Site Assessments and investigation and remediation of facilities ranging from a gasoline service station to a closed military installation. Ms. Brandt has conducted and/or managed more than 200 Phase I ESAs throughout the United States in accordance with ASTM standards to evaluate the presence of "recognized environmental conditions" associated with the subject properties. The Phase I ESAs have involved a variety of property usages including commercial/retail, manufacturing, agricultural, and office/light industrial. Based on the results of Phase I ESAs, numerous Phase II site characterizations have been performed to assess potential impacts resulting from historical activities. Activities conducted include surface geophysical surveys; asbestos and lead-based surveys; soil, soil vapor, groundwater and surface water assessments; human health risk assessments; developing estimated site cleanup costs and liability valuation; developing cleanup goals based on the current and/or future intended site usage; regulatory support and coordination; and litigation support. Ms. Brandt holds a Bachelor's degree in geology.

Paige Farrell

Ms. Farrell is a Project Scientist in the Geosyntec Long Beach Office. She has nearly five years of experience in environmental site investigation, assessment, remediation, and litigation support. She is currently involved in multiple litigation, environmental site assessment, and due diligence projects. Her experience includes managing projects in Phase II Environmental Site Assessment; site remediation, site characterization, waste disposal under state and federal regulations; litigations support; and regulatory communication. Ms. Farrell holds a Bachelor's degree in Earth Science from the University of California, Santa Barbara and a Master's degree in Climatology from the University of Idaho.

Rose Propst

Ms. Propst is a senior staff scientist with a focus in environmental due diligence, geology, and hydrogeology with over three years of experience in environmental consulting. She has supported environmental consulting work in Michigan, Arizona, and California, including due diligence experience through numerous Phase I ESA reports in California, Michigan, Arizona, Georgia, Washington, and Colorado, and lease reviews and hydrogeologic evaluation reports in Michigan. She has additional experience in groundwater, soil, and soil vapor investigations, and has supported management of monitoring and compliance reporting for numerous landfills, preparation of work plans, site investigation reports, compliance reports, and other technical reports. Ms. Propst holds a Bachelor's degree in geology from Western Michigan University.

Joshua Nandi

Environmental Professional Qualifications

Mr. Nandi is an environmental engineer with over seven years of experience in site assessment and remediation consulting. He has performed Phase I ESAs, Phase II environmental investigations, and remediation on properties throughout the United States. Mr. Nandi has designed, implemented and managed various phases of site characterizations, feasibility studies, cost estimations, remediation engineering design and implementation and health risk assessments at numerous contaminated sites under various federal, state and local environmental regulatory agencies. He has performed remediation engineering for sites contaminated with petroleum hydrocarbons, chlorinated hydrocarbons, 1,4-dioxane, light non-aqueous phase liquid (LNAPL), dense non-aqueous phase liquids (DNAPL), NDMA, perchlorate and nitrate, and has tailored a wide variety of ex-situ and in-situ techniques applicable to each specific project. Mr. Nandi holds a Bachelor's degree in Civil Engineering from the University of California, Irvine and a Master's degree in Environmental Engineering from the University of California, Los Angeles.

Geosyntec Consultants, Inc.
520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 206.496.1450
www.geosyntec.com

24 June 2020

Ms. Tracey Schwartz
Amazon.com Services, Inc.
300 Boren Ave
Seattle, Washington

Subject: **Limited Phase II Environmental Site Assessment**
Amazon Site Code DAX9
1211 Badillo Street, West Covina, California

Dear Ms. Schwartz,

Geosyntec Consultants, Inc. (Geosyntec) is pleased to submit this Limited Phase II Environmental Site Assessment (ESA) report documenting assessment activities performed by Geosyntec at the DAX9 property located at 1211 Badillo Street, West Covina, California (the "Site" or "Subject Property"). This Phase II ESA was prepared in accordance with the scope of work described in Geosyntec's proposals dated 14 May 2020, which were approved in the Amazon.com Services, Inc. (Amazon) PO # 2D-03544757 dated 2 June 2020.

OBJECTIVES AND SCOPE OF WORK

The Phase II ESA scope of work was developed to evaluate potential vapor intrusion to indoor air risk associated with findings identified as part of Geosyntec's Phase I ESA dated 12 May 2020. To meet this objective, the scope of work included collection of four near surface soil samples, the installation and sampling of seven sub-slab vapor samples, and collection of seven indoor air samples from within the building co-located with the sub-slab vapor locations with one contemporaneous outdoor air sample. Sampling locations are shown in Figure 1. Implementation and results of the soil, sub-slab vapor and indoor and outdoor air sampling are reported herein.

A survey was also completed to evaluate the presence of asbestos-containing materials (ACM) and lead-based paint (LBP) in the building materials. The ACM/LPB survey findings will be reported separately to Amazon.

FIELD IMPLEMENTATION

Geosyntec completed field activities at the Site on 11 and 12 June 2020. Prior to the subsurface work, Pacific Coast Locators of La Crescenta, California, was subcontracted by Geosyntec to identify potential utilities or other subsurface obstructions, including rebar at or near planned sub-slab vapor probe locations.

On 11 June 2020, Rice's Concrete Services, Inc. (Rice) of Long Beach, California was

subcontracted by Geosyntec to core and advance four borings (S-1 through S-4) for soil sampling locations both inside the building (S-1 and S-2) and outside the building (S-3 and S-4) at the Site. Soil cores removed from the subsurface were screened for organic vapors using a photoionization detector (PID). Soil samples were collected at each of the four borings from the 0-2 feet below ground surface (bgs) interval using a slide hammer. The samples were collected directly into acetate sleeves and capped after volatile organic compounds (VOC) samples were collected using Terra-Core© samplers. Sample containers were labeled with relevant Site-specific information and stored in a cooler with ice. The samples were submitted under general chain-of-custody protocol to Eurofins Calscience LLC (Eurofins) of Garden Grove, California, for analysis of VOCs by Environmental Protection Agency (EPA) Method 8260B, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D, total petroleum hydrocarbons (TPH) by 8015B, Title 22 metals by 6010B/7471A, and polychlorinated biphenyls (PCBs) by 8082.

On 11 June 2020, Geosyntec installed seven temporary sub-slab vapor probes (pins) using a rotary hammer drill. The slab was observed to be approximately 10-15 inches thick. Upon completion of drilling, the sub-slab vapor probe was installed with an air-tight seal into the drilled hole. After the probes were allowed to equilibrate for at least two hours and prior to sampling, Geosyntec purged approximately 1 liter of vapor which was screened for the presence of helium using a helium detector, VOCs using a PID, and carbon dioxide, methane, and oxygen using a multi-gas meter. Helium was used during sampling as a leak check for indoor air being introduced into the sample. Methane was not detected in the field readings from any of the sub-slab vapor probes. Sub-slab vapor samples were collected in pre-evacuated, batch certified-clean 1-L Summas equipped with 200 ml/min flow controllers (e.g., 5 minute). After collection, the canisters were transported to Eurofins of Garden Grove, California for VOC analysis by EPA Method TO-15. The sub-slab vapor probes were removed after completion of sampling, and the holes were back-filled with liquid cement until flush with the surface of the slab and carpet glued back in place. Sub-slab vapor sampling field forms are provided in Attachment A.

On 12 June 2020, Geosyntec collected seven indoor air samples within the building at the same locations as the sub-slab vapor probes. One outdoor ambient air sample was also collected from the northeastern side of the building, in the upwind direction. A survey of the building was completed prior to sampling to assess conditions relevant to indoor air samples. The samples were collected in pre-evacuated, batch certified-clean 6-L Summas equipped with 8-hour flow controllers placed at approximately 3 to 4 ft above the ground surface to be representative of the breathing zone. The vacuum pressure on the Summas was periodically monitored throughout the duration of the sample collection. Following sample collection, the canisters were transported under standard chain-of-custody protocol to Eurofins of Garden Grove, California, for VOC analysis by EPA Method TO-15 SIM. Indoor air sampling field forms are provided in Attachment A.

Geosyntec consultants

RESULTS

Laboratory analytical reports are provided in Attachment B. Detected compounds are summarized in Table 1 for soil and Table 2 for sub-slab vapor and indoor air. Results are summarized below by sample type.

Soil Sampling

As shown in Table 1, soil analytical results were compared to the California Department of Toxic Substance Control Note 3 Screening Levels[1] (DTSC SLs) or EPA Regional Screening Levels[2] (RSLs). San Francisco Regional Water Quality Control Board Environmental Screening Levels[3] (SFRWQCB ESLs) for Petroleum Range Organics for direct exposure are shown for reference, because no DTSC SL and RSL are available for these compounds. Detections in soil samples can be summarized by the following:

- Arsenic was detected in all soil samples at concentrations up to 8.71 milligram per kilogram (mg/kg), exceeding the Commercial SL of 0.36 mg/kg; however, arsenic concentrations are below the DTSC Southern California regional background arsenic concentration of approximately 12 mg/kg.
- VOCs and PAHs were not detected in soil samples. Various other metals and TPH were detected; however, none of the detected concentrations exceeded SLs.

Sub-Slab Vapor Sampling

As shown in Table 2, sub-slab vapor results were compared to the DTSC Note 3 Screening Levels[1] and the EPA RSLs[2] for Residential and Commercial settings. The indoor air screening values were divided by the standard sub-slab attenuation factor of 0.03[4] to obtain soil vapor screening levels. VOC detections in the soil vapor are summarized by the following:

- Tetrachloroethene (PCE) was detected at concentrations above the Commercial SL of 67 micrograms per cubic meter (µg/m^3) in two sub-slab vapor samples, SS-1 (110 µg/m^3) and SS-2 (240 µg/m^3). SS-1 and SS-2 were located near the former process area and former degreaser/clarifier area. PCE was also detected at concentrations below the Commercial SL but above the Residential SL (15 µg/m^3) at two sub-slab sample locations (SS-5 and SS-7).
- Chloroform was detected at a concentration below the Commercial SL of 18 µg/m^3 but above the Residential SL of 4 µg/m^3 in one sub-slab vapor sample, SS-1 (5.3 µg/m^3).

[1] California Human Health Risk Assessment Note 3 (HHRA), 2019. DTSC-Modified Screening Levels for Soil provided by the Department of Toxic Substances Control (DTSC) for commercial/industrial land uses. April 2019.
[2] United States Environmental Protection Agency (EPA), 2019. Regional Screening Levels (RSLs), Region 9, November 2019.
[3] San Francisco Regional Water Quality Control Board (SFRWQB), 2019. Environmental Screening Levels (ESLs), January 2019.
[4] United States Environmental Protection Agency (EPA), 2015. Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June 2015

- Various other compounds were detected in the sub-slab vapor samples; however, none of the detected concentrations exceeded SLs.

No methane was detected in any of the sub-slab vapor samples during field screening.

Indoor and Outdoor Air Sampling

As shown in Table 2, indoor and outdoor air analytical results were compared to the DTSC Note 3 Screening Levels[1] or EPA RSLs[2] for Residential and Commercial settings. VOC detections in the indoor air are summarized by the following:

- Benzene was detected at concentrations above the Commercial SL (0.42 µg/m^3) at six indoor air locations, up to 1.0 µg/m^3 and was detected in the seventh location at concentrations below the Commercial SL but above the Residential SL (15 µg/m^3; IA-7). Benzene was also detected at a similar concentration (0.37 µg/m^3) in the outdoor air sample, indicating a likely outdoor air contribution to the benzene in indoor air samples.
- Bromodichloromethane, carbon tetrachloride, and chloroform were detected at concentrations below the Commercial SLs but above the Residential SLs in at least one or more indoor air location.
- Various other VOCs were detected at similar concentrations in both the indoor and outdoor air samples. None of the detected concentrations exceeded SLs (including PCE that was detected in the sub-slab vapor).

CONCLUSIONS

Limited Phase II ESA sampling was performed by Geosyntec personnel to support environmental due diligence activities at the Site. Near surface soil samples were collected at four locations, and seven co-located sub-slab vapor and indoor air samples were collected from inside the building. An outdoor ambient air sample was also collected. Analytical results were compared to the lower of the CA DTSC SLs and the EPA RSLs for Residential and Commercial settings.

In soil, arsenic was detected at concentrations exceeding Commercial SLs in all four soil samples (S-1 through S-4); however, the detected arsenic concentrations at the Site were less than what is considered to be background levels in southern California. In sub-slab vapor samples, concentrations of VOCs were below Commercial SLs with the exception of PCE in two sample locations (SS-1 and SS-2). PCE was also detected at concentrations below the Commercial SL but above the Residential SL in two sub-slab vapor sampling locations (SS-5 and SS-7). However, PCE was only detected in one indoor air sample and at a low concentrations below SLs. Concentrations of other VOCs in the indoor air were below Commercial SLs with the exception of benzene in six of the seven indoor air locations. Benzene was also detected at concentrations below the Commercial SL but above the Residential SL in the seventh indoor air sample, as well as the outdoor air sample at similar concentrations, indicating a likely outdoor air contribution to

the benzene in indoor air samples.

CLOSURE

We appreciate the opportunity to support this important project. Please do not hesitate to contact the undersigned should you have questions.

Sincerely,

Molly Taptich P.G. (CA, WA, & PA)
Project Geologist

Melissa Asher, P.E. (CA, WA, CO, & ID)
Senior Principal

Copies to: Doug Baumwirt, Amazon
Scott Lutz, Amazon
Elaina Modlin, Geosyntec

ATTACHMENTS

Figure 1	Sample Location Map
Table 1	Summary of Shallow Soil Sampling Results
Table 2	Summary of Indoor Air and Sub-Slab Vapor Sampling Results
Attachment A	Sub-Slab Vapor and Indoor Air Sampling Forms
Attachment B	Laboratory Analytical Reports

FIGURE



Legend

- Co-located Sub-Slab Vapor & Indoor Air Sample location
- Soil Sample Location
- Outdoor Air Sample
- Historical Building Location
- Approximate Site Boundary
- Historical Pacific Electric Railroad line location

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

50 25 0 50 Feet

Sample Location Map

1211 Badillo Street,
West Covina, California

Geosyntec consultants

PNR0651FW2-267B | June 2020

Figure 1

P:\Projects\Amazon\Projects\GIS\900 GIS and CAD\920 GIS\PNR0651FW1-267A_West Covina\MXDs\Phase II\Figure 1 Sample Location Map.mxd 6/16/2020 9:36:17 AM

TABLES

Table 1
Summary of Shallow Soil Sampling Results
DAX9 - 1211 Badillo Street
West Covina, California

Compound	Units	Soil Screening Level[a]		Soil Results (0-2 ft bgs)			
		Residential	Commercial	S-1	S-2	S-3	S-4
Metals by EPA Methods 6010B and 7471A							
Antimony	mg/kg	31	470	<0.739*	<0.773	<0.735	**0.894**
Arsenic		0.11	0.36	**8.71**	**2.55**	**2.80**	**1.34**
Barium		15,000	220,000	**119**	**119**	**117**	**130**
Beryllium		16	230	**0.625**	**0.525**	**0.575**	**0.600**
Cadmium		71	780	**0.837**	<0.515	<0.490	<0.498
Chromium		120,000	1,800,000	**14.2**	**12.0**	**13.4**	**13.7**
Cobalt		23	350	**10.2**	**8.80**	**9.88**	**9.95**
Copper		3,100	47,000	**24.0**	**19.2**	**20.5**	**20.6**
Lead		80	320	**4.47**	**5.43**	**1.92**	**1.23**
Mercury		1	4.4	**0.133**	**0.293**	**0.122**	<0.0833
Molybdenum		390	5,800	<0.246°	<0.258°	<0.245°	<0.249°
Naphthalene		2	6.5	**0.0530**	<0.0200	<0.0200	<0.0200
Nickel		820	11,000	**13.9**	**11.3**	**12.4**	**12.8**
Vanadium		390	5,800	**37.3**	**31.3**	**34.8**	**35.6**
Zinc		23,000	350,000	**47.1**	**41.6**	**42.4**	**43.6**
Total Petroleum Hydrocarbons (TPH) by EPA Method 8015B							
C25-C28	mg/kg	260	1,200	<4.80	<4.90	<5.00	**9.30**
C29-C32		260	1,200	<4.80	<4.90	<5.00	**16.0**
C33-C36		260	1,200	<4.80	<4.90	<5.00	**13.0**
C37-C40		260	1,200	<4.80	<4.90	<5.00	**7.90**
TPH Full Scan, C6-C44		--	--	<4.80	<4.90	<5.00	**50.0**
Diesel Range Organics (DRO), C10-C28		260	1,200	<4.80	<4.90	<5.00	**11.0**

Notes:

All soil samples were collected on 11 June 2020.

Only compounds detected in at least one soil sample are shown.

a) Values are the lower of the California Department of Toxic Substance Control Note 3 Screening Levels (CA DTSC-SLs; Cancer or Non-Cancer Endpoint), April 2019, or Environmental Protection Agency (EPA) Regional Screening Levels (RSLs), November 2019, for soil, with the exception of Petroleum Range Organics, San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs; Rev. January 2019) for direct

mg/kg = milligrams per kilogram

ft bgs = feet below ground surface

"<" = Not detected above the laboratory reporting limit shown

-- = screening level not available

Detected concentrations are in **bold.**

* MS and/or MSD recovery exceeds control limits

° A negative instrument reading had an absolute value greater than the reporting limit

50	Detected concentration is greater than the commercial soil screening level.
50	Detected concentration is greater than the residential but below the commercial soil screening level.

Table 2
Summary of Indoor Air and Sub-Slab Vapor Sampling Results
DAX9 - 1211 Badillo Street
West Covina, California

Compound	Units	Indoor Air Screening Level[1] (µg/m³)		Outdoor Air Results (µg/m³)	Indoor Air Results (µg/m³)							Soil Vapor Screening Level[2] (µg/m³)		Sub-Slab Vapor Results (µg/m³)						
		Residential	Commercial	OA-1	IA-1	IA-2	IA-3	IA-4	IA-5	IA-6	IA-7	Residential	Commercial	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7
Acetone	µg/m³	32,000	140,000	--	--	--	--	--	--	--	--	1,066,700	4,666,700	360	250	<5.6	760	780	65	59
Benzene		0.097	0.42	0.37	0.43	0.57	0.63	0.50	0.49	1.0	0.41	3.2	14	<1.9	<2.0	<1.9	<6.9	<4.6	<1.9	<2.0
Bromodichloromethane		0.076	0.33	<0.17	<0.17	<0.17	0.27	<0.17	<0.17	<0.17	<0.17	2.53	11	<4.0	<4.2	<3.9	<14	<9.6	<4.0	<4.2
2-Butanone		5,200	22,000	--	--	--	--	--	--	--	--	173,333	733,333	14	20	<5.2	<19	<13	12	11
Carbon tetrachloride		0.47	2.0	0.45	0.47	0.46	0.51	0.48	0.48	0.46	0.46	16	67	<3.7	<3.9	<3.7	<14	<9.0	<3.7	<4.0
Chloroform		0.12	0.53	0.13	0.19	0.18	0.50	0.21	0.17	0.31	0.15	4	18	5.3	<3.0	<2.9	<11	<7.0	<2.9	<3.1
Chloroethane		--	--	0.12	0.082	<0.066	0.090	<0.066	<0.066	0.36	0.068	--	--	<1.6	<1.6	<1.5	<5.7	<3.8	<1.6	<1.7
Chloromethane		94	390	0.74	0.97	0.78	1.2	0.75	0.70	1.0	0.72	3,133	13,000	<1.2	<1.3	<1.2	<4.5	<3.0	<1.2	<1.3
Dichlorodifluoromethane		100	440	2.2	2.2	2.2	2.1	2.2	2.3	2.2	2.2	3,333	14,667	3.6	3.2	<2.9	<11	<7.1	3.2	<3.1
1,2-Dichloroethane		0.11	0.47	<0.10	<0.10	<0.10	0.11	0.10	<0.10	0.11	<0.10	3.7	16	<2.4	<2.5	<2.4	<8.8	<5.8	<2.4	<2.5
Ethylbenzene		1.1	4.9	0.19	0.33	0.71	0.69	0.80	0.38	1.1	0.27	37	163	<2.6	<2.7	<2.5	<9.4	<6.2	<2.6	<2.7
Isopropanol		210	880	--	--	--	--	--	--	--	--	7,000	29,333	88	75	<14	160	260	33	22
Methylene Chloride		1.0	12	0.44	0.44	0.38	0.39	0.45	0.45	0.52	0.44	33	400	<20	<22	<20	<75	<50	<21	<22
o-Xylene		100	440	0.18	0.36	0.64	0.65	1.6	0.38	0.83	0.27	3,333	14,667	<2.6	<2.7	<2.5	<9.4	<6.2	<2.6	<2.7
m,p-Xylene		100	440	0.42	0.87	1.7	1.8	2.8	0.91	2	0.66	3,333	14,667	<10	<11	<20	<38	<25	<10	<11
Tetrachloroethene		0.46	2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.28	15	67	110	240	<4.0	<15	23	5.5	32
Toluene		310	1,300	0.90	1.3	2.4	2.8	2.3	1.6	4.5	1.2	10,333	43,333	<2.2	<2.3	<2.2	<8.1	<5.4	2.8	5.6
Trichloroethene		0.48	3	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.13	16	100	<3.2	<3.3	<3.1	<12	<7.7	<3.2	<3.4
Trichlorofluoromethane		1,300	5,300	1.2	2.0	2.2	2.3	5.2	2.4	1.9	1.3	43,333	176,667	<6.6	<7.0	<6.6	<24	<16	<6.7	<7.1
1,3,5-Trimethylbenzene		63	260	<0.12	<0.12	<0.12	0.15	0.12	<0.12	0.12	<0.12	2,100	8,667	<2.9	<3.0	<2.9	<11	<7.0	<2.9	<3.1
1,2,4-Trimethylbenzene		63	260	<0.25	<0.25	0.32	0.46	0.34	0.25	0.35	<0.25	2,100	8,667	<8.7	<9.1	<8.6	<32	<21	<8.8	<9.3
1,1,1-Trichloroethane		1,000	4,440	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	33,333	148,000	20	83	<3.2	<12	<7.8	<3.2	4.1
1,1-Difluoroethane		42,000	180,000	<0.68	<0.68	<0.68	0.72	<0.68	<0.68	<0.68	1.2	1,400,000	6,000,000	<6.4	<6.7	<6.3	<23	<15	<6.4	<6.8
1,1,2-Trichloro-1,2,2-trifluoroethane		5,200	22,000	0.50	0.49	0.50	0.50	0.52	0.52	0.49	0.50	173,333	733,333	19	18	<13	<50	<33	<14	<14

Notes:
Indoor and outdoor air samples were collected on 12 June 2020 and analyzed by Environmental Protection Agency (EPA) Method TO-15 SIM.
Sub-slab vapor samples were collected on 11 and 12 June 2020 and analyzed by Environmental Protection Agency (EPA) Method TO-15.
Only compounds detected at least once in air or sub-slab vapor samples are shown.

1. Values reflect the most recent screening levels for indoor air quality, based on a 1 x 10^{-6} carcinogenic risk standard (the non-cancer endpoint is reported where a cancer endpoint has not been established). The source of the indoor air screening levels is the California Department of Toxic Substance Control Note 3 Screening Levels (CA DTSC-SLs; Cancer or Non-Cancer Endpoint; April 2019) and/or the EPA Regional Screening Levels (RSLs; November 2019), whichever is most conservative.

2. Values reflect the most recent screening levels for indoor air quality (CA DTSC-SLs or EPA RSLs, whichever is most conservative), divided by the default subsurface to indoor air attenuation factor of 0.03 (Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, EPA, June 2015).

µg/m³ = Micrograms per cubic meter
"<" = Not detected above the laboratory reporting limit shown
-- = Screening level and/or analytical data not available
Detected concentrations are in **bold.**

50	Detected concentration is greater than the commercial indoor air screening level.
50	Detected concentration is greater than the residential but below the commercial indoor air screening level.

ATTACHMENT A

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAY9
Date: 12 JUNE 2020 Project Number: PHR0651FWZ
Site Location: WEST COVINA, CA
Weather: SUNNY 70S
Field Personnel: SBJ EG
Recorded By: SBJ EG

Probe No.: SS-1 ☒ Sub-slab probe ☐ Soil vapor probe
MinRae 2000 or RKI GX-6000 Serial No.: 643988 Lamp 10.6 / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 643770
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172,000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: 24 inches/centimeters ☐ Unknown
Slab Condition: NO VISIBLE CRACKS
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): VAPOR PIN
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): NYLA FLOW
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 1 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): HAMMER DRILL
Date Installed: 11 JUNE 2020 Time Installed: 1820

5. Initial Probe Vacuum (prior to purging) -0.3 in. H_2O

6. Field tubing blank reading (ppm_v): PID Reading 0.0 ppm_v

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm_v, %) (circle one)	VOCs by PID (ppm_v)
6/12/2020	0832	0837	5	1	6.2	1 SEG	0.0	0.5	19.0	32	36	0.0	1.1

9. Calculate 5% of the minimum helium concentration in the shroud: ~~0.0~~ 36 ppm_v 1.6
Note: 1% helium = 10,000 ppm_v

Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/12/2020	0842	SS-1	LC1039	A442	NA	-28.98	-3.75

Analysis Requested on COC: EPA TO-15

Comments:

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAX9
Date: 12 June 2020 Project Number: PNR0651FW2
Site Location: West Covina, CA
Weather: Sunny, 70's
Field Personnel: SB + EG
Recorded By: SB + EG

Probe No.: SS-2 ☒ Sub-slab probe ☐ Soil vapor probe
MinRae 2000 or RKI GX-6000 Serial No.: 643988 Lamp: (10.6) / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 643776
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172,000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~15 (inches) centimeters ☐ Unknown
Slab Condition: No visible cracks; small hole in sub-slab
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): Vapor Pin
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): Nylaflow
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 1 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): Hammer Drill
Date Installed: 11 June 2020 Time Installed:

5. Initial Probe Vacuum (prior to purging) -5 in. H_2O

6. Field tubing blank reading (ppm_v): PID Reading 0.0 ppm_v

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm, %) (circle one)	VOCs by PID (ppm_v)
6/12/20	1033	1038	5	1	0.2	1	0	2.5	18.0	23	58	0	0.4

9. Calculate 5% of the minimum helium concentration in the shroud: 1.15 ppm_v
Note: 1% helium = 10,000 ppm_v

Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/12/20	1041	SS-2	LC584	A407	NA	-28.73	-4.75

Analysis Requested on COC: EPA TO-15

Comments:

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAX9
Date: 11 JUNE 2020 Project Number: [illegible]
Site Location: WEST COVINA, CA
Weather: SUNNY 70S
Field Personnel: SB | EG
Recorded By: SB

Probe No.: SS-3 ☒ Sub-slab probe ☐ Soil vapor probe
MiniRae 2000 or RKI GX-6000 Serial No.: 043988 Lamp: (10.6) / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 843770 S
MDG 2002 Helium detector Serial No.: 47231
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~ 10 inches/centimeters ☐ Unknown SB
Slab Condition: NO VISIBLE CRACKS
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): VAPOR PIN
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): NYLAFLOW SB
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 5/8 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): HAMMER DRILL
Date Installed: 11 JUNE 2020 Time Installed: 1024

5. Initial Probe Vacuum (prior to purging) -0.9 in. H_2O SB

6. Field tubing blank reading (ppm_v): PID Reading NA ppm_v 0.0 SB

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm / %) (circle one)	VOCs by PID (ppm_v)
6/11/2020	1355	1400	5	1	0.2	1	0.0	0.0	18.3	25	45	0.0	1.7

9. Calculate 5% of the minimum helium concentration in the shroud: 0.0 SB ppm_v
Note: 1% helium = 10,000 ppm_v 1.25

Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/11/2020	~~1410~~ 1410 SB	SS-3	LC472	A473	NA	-29.19	-2.85
Analysis Requested on COC:		EPA METHOD TO-15					

Comments:

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAXA
Date: 11 JUNE 2020 Project Number: PH1206SI FIN 7/20 #3
Site Location: INGLEWOOD, CA
Weather: SUNNY 78°
Field Personnel: SB | EG
Recorded By: SB

Probe No.: SS-4 ☒ Sub-slab probe ☐ Soil vapor probe
MinRae 2000 or RKI GX-6000 Serial No.: 643988 Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 643776
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172,000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~10 inches/centimeters ☐ Unknown
Slab Condition: NO VISIBLE CRACKS
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): VAPOR PIN
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): NYLAFLOW
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 2 1/2 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): HAMMER DRILL
Date Installed: 11 JUNE 2020 Time Installed: ~~1024~~ SB 1137

5. Initial Probe Vacuum (prior to purging) -0.1 in. H_2O

6. Field tubing blank reading (ppm_v): PID Reading 0.0 ppm_v

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm, %) (circle one)	VOCs by PID (ppm_v)
6/11/2020	1750		5	1	0.2	1	0.0	0.4	19.5	30	55	0.0	1.3

9. Calculate 5% of the minimum helium concentration in the shroud: ~~0.0~~ SB 1.5 ppm_v
Note: 1% helium = 10,000 ppm_v
Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/11/2020	1800	SS-4	LC 1770	A226	NA	-29.58	-5.01

Analysis Requested on COC: EPA METHOD TO 15

Comments:

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAXQ
Date: 11 JUNE 2020 Project Number: DN1206J1 FIN2/2107B
Site Location: WEST COVINA, CA
Weather: SUNNY 70s
Field Personnel: SB/EG
Recorded By: SB

Probe No.: ~~SS-6~~ SS-5 SB ☒ Sub-slab probe ☐ Soil vapor probe
MiniRae 2000 or RKI GX-6000 Serial No.: 042988 Lamp: (10.6) / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 043776
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 1721000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~~~~ ~10 inches/centimeters ☐ Unknown
Slab Condition: NO VISIBLE CRACKS
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): VAPOR PIN
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): NYLAFLOW
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 1 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): HAMMER DRILL
Date Installed: 11 JUNE 2020 Time Installed: 1110

5. Initial Probe Vacuum (prior to purging) 0.5 in. H_2O SB

6. Field tubing blank reading (ppm_v): PID Reading ~~NA~~ ppm$_v$ 0.0 SB

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm_v, %) (circle one)	VOCs by PID (ppm_v)
6/11/2020	1050	1055	5	1	0.2	1	0.0	0.0	19.3	32	55	0.0	0.1

9. Calculate 5% of the minimum helium concentration in the shroud: ~~0.0~~ SB ppm$_v$ 1.6
Note: 1% helium = 10,000 ppm$_v$
Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/11/2020	~~1055~~ ~~1100~~ SB	SS-5	~~LC3303~~ SB	A351	NA	-28.98	-6.17
	(1715) SB		LC11316				
Analysis Requested on COC:		EPA METHOD TO-15					

Comments:

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAX9
Date: 12 June 2020 Project Number: PNR0651FW2/20713
Site Location: West Covina, CA
Weather: Sunny 80's
Field Personnel: SB + EG
Recorded By: SB + EG

Probe No.: SS-6 ☒ Sub-slab probe ☐ Soil vapor probe
MinRae 2000 or RKI GX-6000 Serial No.: 443988 Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 6437710
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172,000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~15 inches/centimeters ☐ Unknown
Slab Condition: No visible cracks
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): VAPOR PIN
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): N-1/4 FLOW
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: 4 1 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): HAMMER DRILL
Date Installed: 11 JUNE 2020 Time Installed: 1400

5. Initial Probe Vacuum (prior to purging) -0.9 in. H_2O

6. Field tubing blank reading (ppm_v): PID Reading 0.0 ppm_v

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm$_v$, %) (circle one)	VOCs by PID (ppm_v)
6/12/2020	1145	1150	5	1	0.2	1	0.0	0.1	19.8	30	53	6	NA

9. Calculate 5% of the minimum helium concentration in the shroud: 1.5 ppm_v
Note: 1% helium = 10,000 ppm_v
Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/12/20	1158	SS-6	LC886	A380	NA	-29.01	-3.85
Analysis Requested on COC:		EPA TO-15					

Comments: • ~~Not~~ E. EG VOCs BY PID - INSUFFICIENT VAPOR IN TEDLAR FOR READING

SOIL VAPOR PROBE MEASUREMENTS

Geosyntec consultants

1. Client Site Code: DAXQ
Date: 12 June 2020 Project Number: PNR0651FW2
Site Location: West Covina, CA
Weather: Sunny 70s
Field Personnel: SB/EG
Recorded By: SB/EG

Probe No.: SS-7 ☒ Sub-slab probe ☐ Soil vapor probe
MinRae 2000 or RKI GX-6000 Serial No.: 643988 Lamp: (0.6) 11.7 eV
Landtech GEM 2000 or 5000 Landfill Gas Meter Serial No.: 47231
MDG 2002 Helium detector Serial No.: 643776
Leak Detection Method: ☒ Helium ☐ Water Dam ☐ Other
Approximate Building Square Footage: 172,000

2. Surface Type: ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface Thickness: ~15 (inches/centimeters) ☐ Unknown
Slab Condition: No visible cracks
Vapor Barrier Present?: ☐ Yes ☐ No ☒ Unknown

3. Probe construction details:
Probe type (i.e. VaporPin®, Stainless Steel Implant, Threaded Brass Sub-slab Probe, etc.): Vapor Pin
Tubing Type (i.e. Teflon, Nylaflow, or polyetheretherketone (PEEK)): Nylaflow
Probe diameter: NA inch Tubing diameter: 1/4 inch Borehole diameter: <1 inch
Drilling Method (i.e. Direct Push, Hammer Drill, Hand Auger, etc.): Hammer Drill
Date Installed: 11 June 2020 Time Installed: 1340

5. Initial Probe Vacuum (prior to purging) 0.2 in. H_2O

6. Field tubing blank reading (ppm_v): PID Reading 0.0 ppm_v

7. Shut in test prior to purging completed? ☒ Yes ☐ No

4. 1 Casing Volume: ☒ Sub-slab probe <0.1 L ☐ Soil vapor probe _____ L (Calculate volume for soil vapor probe)

8. Purging **If methane is detected during purging at greater than 0.5% (10% of LEL), notify PM

Date	Start Time	End Time	Elapsed Time (min.)	Bag Volume (L)	Purge Rate (LPM)	Cumulative Volume (L)	CH_4 ** (%)	CO_2 (%)	O_2 (%)	Helium Shroud (%) Min	Helium Shroud (%) Max	Helium Sample (ppm, %) (circle one)	VOCs by PID (ppm_v)
6/12/20	920	926	5	1	0.2	1	0.0	3.5	17.7	30	61	0	2.5

9. Calculate 5% of the minimum helium concentration in the shroud: 1.5 ppm_v
Note: 1% helium = 10,000 ppm_v

Confirm that helium in field screened samples is less than 5% of the minimum helium concentration in the shroud prior to sampling: ☒ Confirmed
Note: If not confirmed, troubleshoot leak prior to sample collection and document in comments below

10. Shut in test prior to sample collection completed? ☒ Yes ☐ No

11. Sample Collection

Date	Time	Sample ID	Summa Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum (in. Hg)	Final Vacuum (in. Hg)
6/12/20	931	SS-7	LC1232	A421	NA	-29.02	-5.28
Analysis Requested on COC:		EPA TO-15					

Comments:

Indoor / Outdoor Air Monitoring Form

Geosyntec consultants

DAX9

Site Name: West Covina - 1211 Badillo St **Project Number:** PNR0651FW2/267B **Location:** 1211 Badillo St, West Covina, CA

Sampled by: Eric Garcia & Stephanie Bone **Weather Conditions:** 63°F, partly cloudy @ 0700

Building ID: NA **Wind Speed/Direction:** SSW 3mph

Sample Type: Indoor Air + Outdoor Air.

Sample ID	Canister ID (#)	Regulator ID (FC #)	Start			End		
			Vac (in.-Hg)	Time	Date	Vac (in.-Hg)	Time	Date
IA-1	D184	FC202	-31	~~0730~~ 0853	6/12/20	-4.71	1450	6/12/20
IA-2	D758	FC362	-30	0757	↓	-3.50	1402	↓
IA-3	D526	FC487	-30	0754	↓	-5.20	1410	↓
IA-4	D503	FC440	-30	0805	↓	-4.95	1543	↓

Describe HVAC at the time of sampling (type, on or off and for how long). Indicate air intake and exhaust vent locations on maps.

SEE BELOW

Sample canister intermediate vacuum readings (in-Hg):

Time	Sample ID	Notes
1210	IA-1	VAC (IN-Hg) -20
1223	IA-2	VAC (IN-Hg) -19
1224	IA-3	VAC (IN-Hg) -18
1240	IA-4	VAC (IN-Hg) -17

Air conditioning? NOT ON

Fans? NONE OBSERVED

Heaters? NOT OBSERVED / NOT ON

Windows or doors open near samples?:

Smoking area nearby?: NOT OBSERVED

Chemical use or cleaning supplies nearby?: NOT OBSERVED

Indoor / Outdoor Air Monitoring Form

Geosyntec consultants

Site Name: DX9 **Project Number:** 17N1206S1FINZ | 260713 **Location:** 1211 BADILLO ST. WEST COVINA, CA

Sampled by: EG + SB **Weather Conditions:** 63° F, PARTLY CLOUDY @ 0700

Building ID: NA **Wind Speed/Direction:** SSW 3 MPH

Sample Type: INDOOR AIR + OUTDOOR AIR

Sample ID	Canister ID (#)	Regulator ID (FC #)	Start			End		
			Vac (in.-Hg)	Time	Date	Vac (in.-Hg)	Time	Date
IA-5	D575	FC187	-32	0745	6/12/20	-11.98	1800	6/12/20
IA-6	D891	FC443	-29	0738		-4.25	NVO	
IA-7	D924	FC458	-30	~~0732~~ 0940 EG		-6.42	1720	
~~OA~~ SB	D863	FC70	-31	0747		-7.90	1630	

Describe HVAC at the time of sampling (type, on or off and for how long). Indicate air intake and exhaust vent locations on maps.

SEE BELOW

Sample canister intermediate vacuum readings (in-Hg):

~~Time~~ SAMPLE ID	~~Sample ID~~ TIME	Notes
IA-5 SB	1233	VAC (IN-Hg) -24
IA-6 SB	1203	VAC (IN-Hg) -12
IA-7 SB	1247	VAC (IN-Hg) -17
~~OA-7 IA-5~~ SB		~~VAC (IN-Hg) -19~~ SB
OA	1244	VAC (IN-Hg) -20

Air conditioning? NOT ON

Fans? NOT OBSERVED

Heaters? NOT OBSERVED | NOT ON

Windows or doors open near samples?:

Smoking area nearby?: NOT OBSERVED

Chemical use or cleaning supplies nearby?: NOT OBSERVED

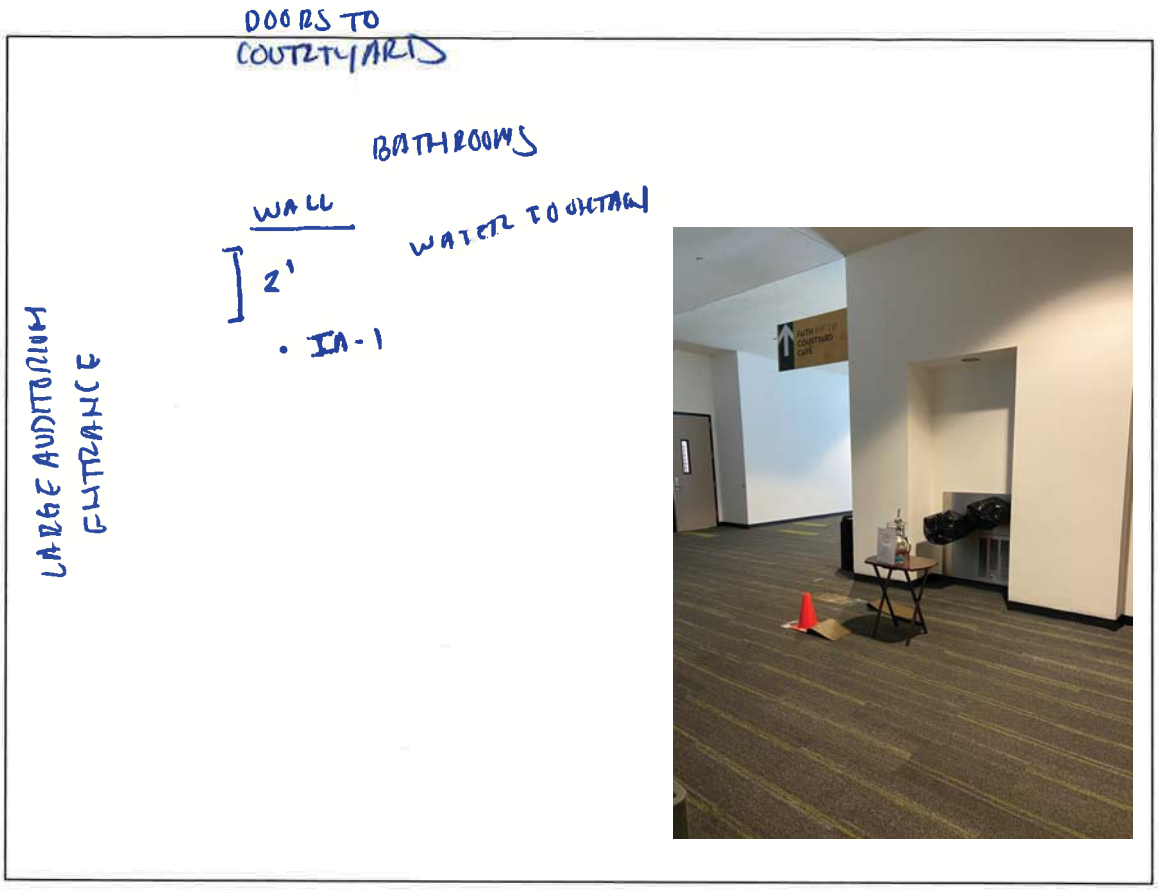
→ HALLWAY BY RESTROOMS
+ NEXT TO LARGE AUDITORIUM

Sampling Locations

IA-1

• IA-2

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

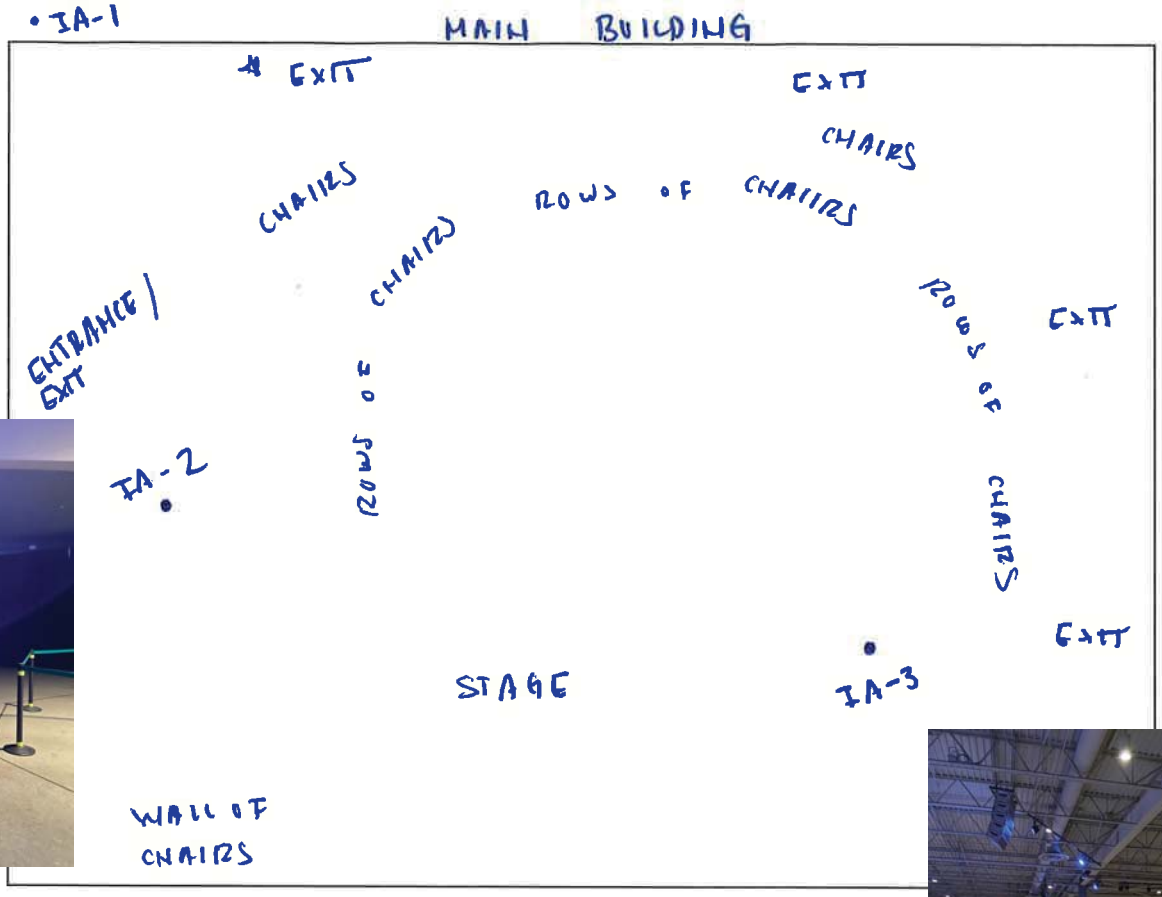
NO HVAC, NO WINDOWS (HALLWAY); DOOR TO LARGE AUDITORIUM ADJACENT TO LOCATION OPEN THROUGHOUT THE DAY. DOORS TO COURTYARD ACCESSED AND OPENED OCCASIONALLY DURING SAMPLING. LOCATION NEARBY BATHROOM

→ LARGE AUDITORIUM (NO WINDOWS)

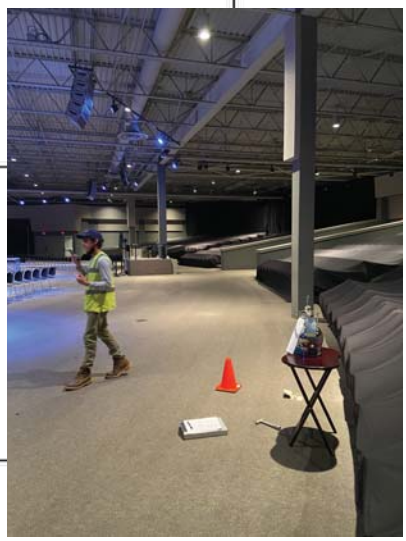
Sampling Locations

IA-2 IA-3 → HIGH CEILINGS

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.







Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

NO HVAC ON, IN LARGE AUDITORIUM, NO WINDOWS, HIGH CEILINGS
A EXIT ON NORTHEAST SIDE OF AUDITORIUM MOSTLY OPEN THROUGHOUT THE DAY; EXITS TO MAIN BUILDING. ALL OTHER EXITS CLOSED THROUGHOUT THE DAY

IA-2 37' FROM STAGE
IA-2 15' FROM NEAREST EXIT

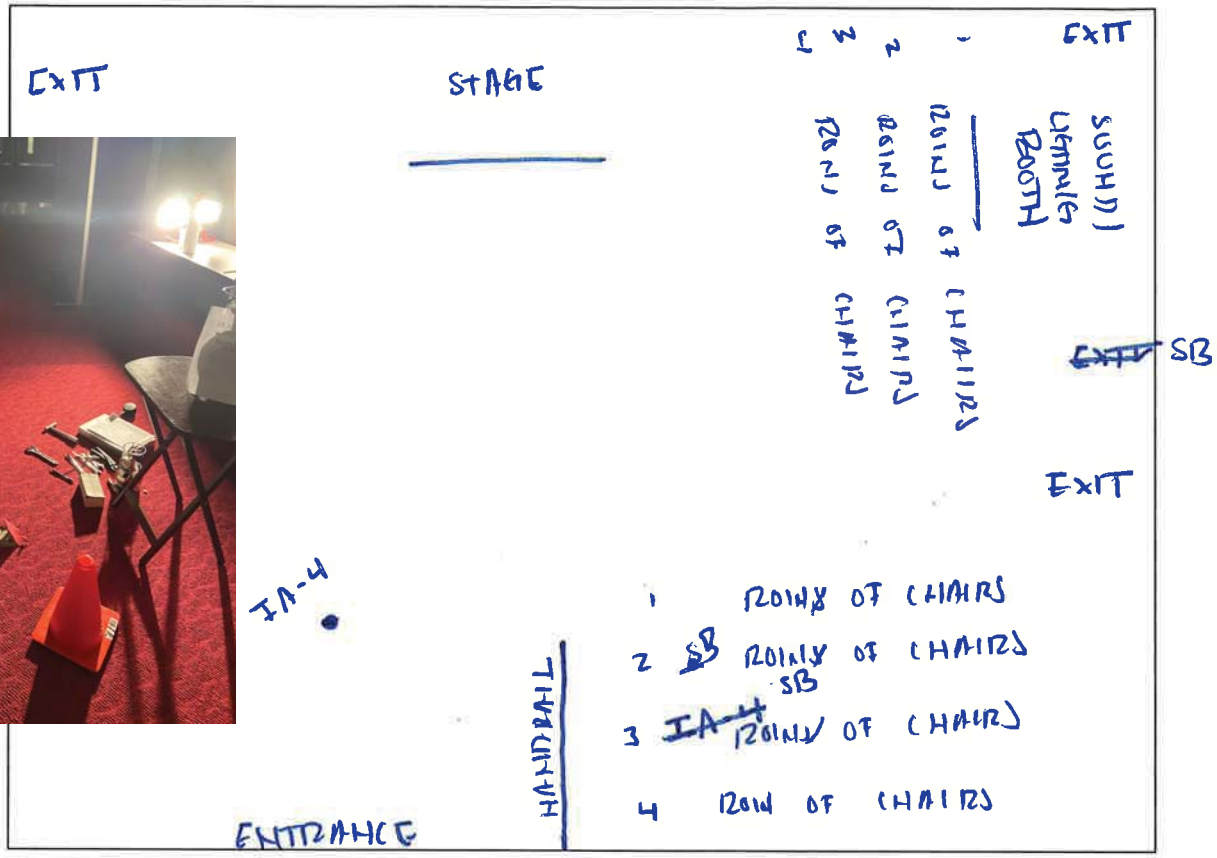
IA-4

→ SMALL AUDITORIUM (NO WINDOWS)
→ TILED CARPET

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.





Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

NO WINDOWS, SMALL AUDITORIUM W/ STAGE AND RAISED PLATFORM FOR ROWS OF CHAIRS, LIGHTING/SOUND BOOTH, NO HVAC ON INSIDE ROOM, ~~THE~~ SB CARPET

IA-5

→ IN A HALLWAY (NO WINDOWS)

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.





Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

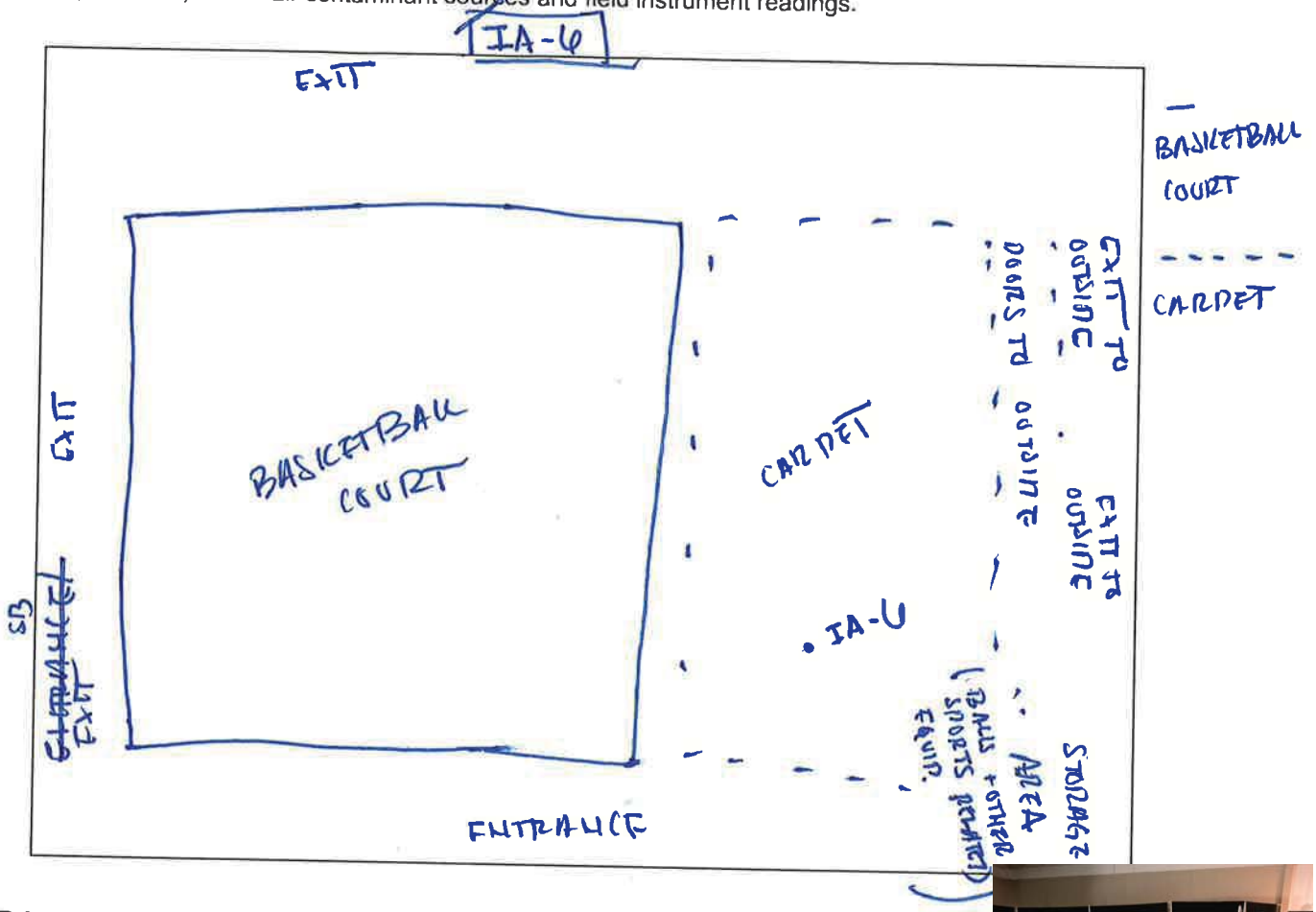
Provide any other information that may be of importance in understanding the indoor air quality of this building.

HVAC ON. NO WINDOWS IN HALLWAY. SOME FOOT TRAFFIC IN HALLWAY, ADJACENT TO CLASSROOMS. HALLWAY DOORS TO MAIN LOBBY/ ENTRANCE OPEN DURING SAMPLING.

→ SMALL GYM / BASKETBALL COURT IN/ ADJACENT CARPET

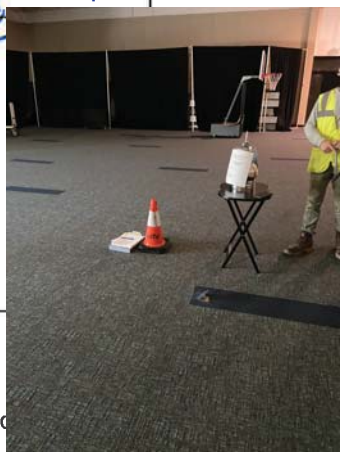
Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene



Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

Provide any other information that may be of importance in understanding the indoor air c
building.

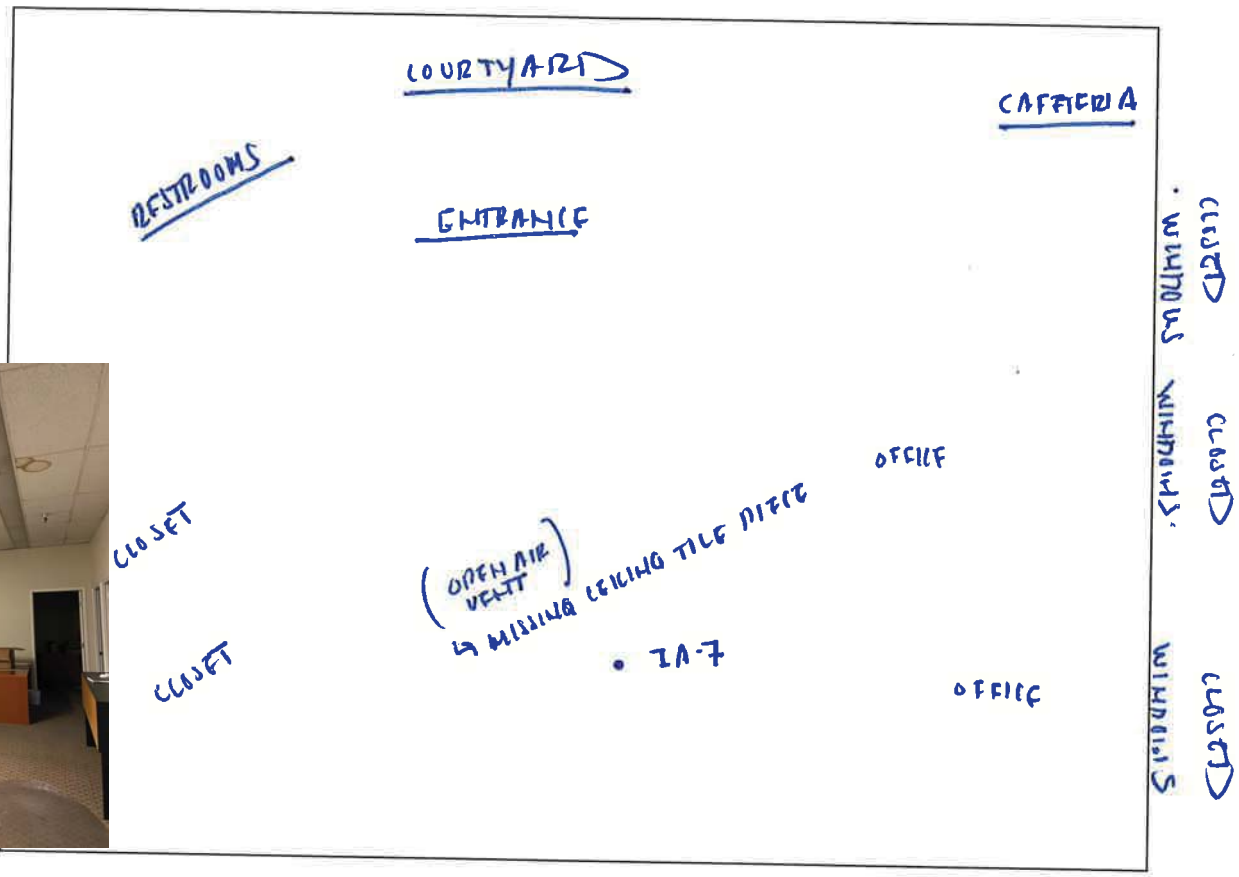
NO HVAC ON; TWO WINDOW/DOORS THAT LEAD TO OUTSIDE. DOORS CLOSED DURING SAMPLING. ALL DOORS CLOSED

Sampling Locations IA-7

→ SMALL VACANT OFFICES
→ <10 ROOMS., ALL IN WITH CLOSED WINDOWS

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.





Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

NO HVAC RUNNING IN SMALL OFFICE SPACE (<10 ROOMS) MULTIPLE WINDOWS ALL CLOSED. THERMOSTAT READING 80S. OFFICE IS VACANT. MULTIPLES OF 'ABANDONED' OFFICE SUPPLIES, USED BATTERIES IN CLOSET NEARBY. ~~ASSU~~ SB CARPET. DOORS WERE CLOSED DURING SAMPLING

ATTACHMENT B

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-30685-1
Client Project/Site: PNR0651FW2/267B

For:
Geosyntec Consultants, Inc.
520 Pike Street
Suite 2600
Seattle, Washington 98101

Attn: Molly Taptich

Authorized for release by:
6/15/2020 6:11:27 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 8
Surrogate Summary 26
QC Sample Results 28
QC Association Summary 46
Lab Chronicle 50
Certification Summary 53
Method Summary 54
Sample Summary 55
Chain of Custody 56
Receipt Checklists 57

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-30685-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-30685-1

Comments
No additional comments.

Receipt
The samples were received on 6/11/2020 5:03 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260B: The initial calibration curve analyzed in batch 570-74963 was outside method criteria for the following analyte(s): Bromomethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-74963.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-74988.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The absolute response for Molybdenum and Selenium was greater than the method reporting limit (RL) in the following samples: S-2 (570-30685-2), S-3 (570-30685-3) and S-4 (570-30685-4).
The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-75110 and analytical batch 570-75210 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-75110 and analytical batch 570-75210 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: The absolute response for Molybdenum and Selenium was greater than the method reporting limit (RL) in the following sample: S-1 (570-30685-1).
The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Job ID: 570-30685-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Client Sample ID: S-1 — Lab Sample ID: 570-30685-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.053		0.020		mg/Kg	1		8270C SIM	Total/NA
Arsenic	8.71		0.739		mg/Kg	1		6010B	Total/NA
Barium	119		0.493		mg/Kg	1		6010B	Total/NA
Beryllium	0.625		0.246		mg/Kg	1		6010B	Total/NA
Cadmium	0.837		0.493		mg/Kg	1		6010B	Total/NA
Chromium	14.2		0.246		mg/Kg	1		6010B	Total/NA
Cobalt	10.2		0.246		mg/Kg	1		6010B	Total/NA
Copper	24.0		0.493		mg/Kg	1		6010B	Total/NA
Lead	4.47		0.493		mg/Kg	1		6010B	Total/NA
Nickel	13.9		0.246		mg/Kg	1		6010B	Total/NA
Vanadium	37.3		0.246		mg/Kg	1		6010B	Total/NA
Zinc	47.1		0.985		mg/Kg	1		6010B	Total/NA
Mercury	0.133		0.0862		mg/Kg	1		7471A	Total/NA

Client Sample ID: S-2 — Lab Sample ID: 570-30685-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.55		0.773		mg/Kg	1		6010B	Total/NA
Barium	119		0.515		mg/Kg	1		6010B	Total/NA
Beryllium	0.525		0.258		mg/Kg	1		6010B	Total/NA
Chromium	12.0		0.258		mg/Kg	1		6010B	Total/NA
Cobalt	8.80		0.258		mg/Kg	1		6010B	Total/NA
Copper	19.2		0.515		mg/Kg	1		6010B	Total/NA
Lead	5.43		0.515		mg/Kg	1		6010B	Total/NA
Nickel	11.3		0.258		mg/Kg	1		6010B	Total/NA
Vanadium	31.3		0.258		mg/Kg	1		6010B	Total/NA
Zinc	41.6		1.03		mg/Kg	1		6010B	Total/NA
Mercury	0.293		0.0820		mg/Kg	1		7471A	Total/NA

Client Sample ID: S-3 — Lab Sample ID: 570-30685-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.80		0.735		mg/Kg	1		6010B	Total/NA
Barium	117		0.490		mg/Kg	1		6010B	Total/NA
Beryllium	0.575		0.245		mg/Kg	1		6010B	Total/NA
Chromium	13.4		0.245		mg/Kg	1		6010B	Total/NA
Cobalt	9.88		0.245		mg/Kg	1		6010B	Total/NA
Copper	20.5		0.490		mg/Kg	1		6010B	Total/NA
Lead	1.92		0.490		mg/Kg	1		6010B	Total/NA
Nickel	12.4		0.245		mg/Kg	1		6010B	Total/NA
Vanadium	34.8		0.245		mg/Kg	1		6010B	Total/NA
Zinc	42.4		0.980		mg/Kg	1		6010B	Total/NA
Mercury	0.122		0.0877		mg/Kg	1		7471A	Total/NA

Client Sample ID: S-4 — Lab Sample ID: 570-30685-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
C25-C28	9.3		4.9		mg/Kg	1		8015B	Total/NA
C29-C32	16		4.9		mg/Kg	1		8015B	Total/NA
C33-C36	13		4.9		mg/Kg	1		8015B	Total/NA
C37-C40	7.9		4.9		mg/Kg	1		8015B	Total/NA
C6-C44	50		4.9		mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-4 (Continued)

Lab Sample ID: 570-30685-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		4.9		mg/Kg	1		8015B	Total/NA
Antimony	0.894		0.746		mg/Kg	1		6010B	Total/NA
Arsenic	1.34		0.746		mg/Kg	1		6010B	Total/NA
Barium	130		0.498		mg/Kg	1		6010B	Total/NA
Beryllium	0.600		0.249		mg/Kg	1		6010B	Total/NA
Chromium	13.7		0.249		mg/Kg	1		6010B	Total/NA
Cobalt	9.95		0.249		mg/Kg	1		6010B	Total/NA
Copper	20.6		0.498		mg/Kg	1		6010B	Total/NA
Lead	1.23		0.498		mg/Kg	1		6010B	Total/NA
Nickel	12.8		0.249		mg/Kg	1		6010B	Total/NA
Vanadium	35.6		0.249		mg/Kg	1		6010B	Total/NA
Zinc	43.6		0.995		mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1,1-Trichloroethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1,2-Trichloroethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1-Dichloroethane	ND	*	0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1-Dichloroethene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,1-Dichloropropene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2-Dibromoethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2-Dichlorobenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2-Dichloroethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,2-Dichloropropane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,3-Dichlorobenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,3-Dichloropropane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
1,4-Dichlorobenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
2,2-Dichloropropane	ND		4.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
2-Butanone	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
2-Chlorotoluene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
2-Hexanone	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
4-Chlorotoluene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
4-Methyl-2-pentanone	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Acetone	ND		49		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Benzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Bromobenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Bromochloromethane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Bromodichloromethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Bromoform	ND		4.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Bromomethane	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
cis-1,2-Dichloroethene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
cis-1,3-Dichloropropene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Carbon disulfide	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Carbon tetrachloride	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Chlorobenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Chloroethane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Chloroform	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Chloromethane	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Dibromochloromethane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Dibromomethane	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Dichlorodifluoromethane	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Di-isopropyl ether (DIPE)	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Ethanol	ND		490		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Ethylbenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Ethyl-t-butyl ether (ETBE)	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Methylene Chloride	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Naphthalene	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
n-Butylbenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
N-Propylbenzene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
o-Xylene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
m,p-Xylene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
p-Isopropyltoluene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
sec-Butylbenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Styrene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
trans-1,2-Dichloroethene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Tert-amyl-methyl ether (TAME)	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
tert-Butyl alcohol (TBA)	ND		20		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
tert-Butylbenzene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Tetrachloroethene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Toluene	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Trichloroethene	ND		2.0		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Trichlorofluoromethane	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Vinyl acetate	ND		9.9		ug/Kg		06/11/20 19:57	06/12/20 11:42	1
Vinyl chloride	ND		0.99		ug/Kg		06/11/20 19:57	06/12/20 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 155*	*06/11/20 19:57*	*06/12/20 11:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*06/11/20 19:57*	*06/12/20 11:42*	*1*
Dibromofluoromethane (Surr)	*108*		*79 - 133*	*06/11/20 19:57*	*06/12/20 11:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/11/20 19:57*	*06/12/20 11:42*	*1*

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1,1-Trichloroethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1,2,2-Tetrachloroethane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1,2-Trichloroethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1-Dichloroethane	ND	*	1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1-Dichloroethene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,1-Dichloropropene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2,3-Trichlorobenzene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2,3-Trichloropropane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2,4-Trichlorobenzene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2,4-Trimethylbenzene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2-Dibromoethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2-Dichlorobenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2-Dichloroethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,2-Dichloropropane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,3-Dichlorobenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,3-Dichloropropane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
1,4-Dichlorobenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
2,2-Dichloropropane	ND		6.0		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
2-Butanone	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
2-Chlorotoluene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
2-Hexanone	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
4-Chlorotoluene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
4-Methyl-2-pentanone	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Acetone	ND		60		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Benzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Bromobenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Bromochloromethane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Bromodichloromethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Bromoform	ND		6.0		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Bromomethane	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
cis-1,2-Dichloroethene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
cis-1,3-Dichloropropene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Carbon disulfide	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Carbon tetrachloride	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Chlorobenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Chloroethane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Chloroform	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Chloromethane	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Dibromochloromethane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Dibromomethane	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Dichlorodifluoromethane	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Di-isopropyl ether (DIPE)	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Ethanol	ND		600		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Ethylbenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Ethyl-t-butyl ether (ETBE)	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Isopropylbenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Methylene Chloride	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Methyl-t-Butyl Ether (MTBE)	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Naphthalene	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
n-Butylbenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
N-Propylbenzene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
o-Xylene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
m,p-Xylene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
p-Isopropyltoluene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
sec-Butylbenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Styrene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
trans-1,2-Dichloroethene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
trans-1,3-Dichloropropene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Tert-amyl-methyl ether (TAME)	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
tert-Butyl alcohol (TBA)	ND		24		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
tert-Butylbenzene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Tetrachloroethene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Trichloroethene	ND		2.4		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Trichlorofluoromethane	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Vinyl acetate	ND		12		ug/Kg		06/11/20 19:57	06/12/20 12:09	1
Vinyl chloride	ND		1.2		ug/Kg		06/11/20 19:57	06/12/20 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*71 - 155*	*06/11/20 19:57*	*06/12/20 12:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*06/11/20 19:57*	*06/12/20 12:09*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 133*	*06/11/20 19:57*	*06/12/20 12:09*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/11/20 19:57*	*06/12/20 12:09*	*1*

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1,1-Trichloroethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1,2-Trichloroethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1-Dichloroethane	ND	*	0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1-Dichloroethene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,1-Dichloropropene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2,3-Trichloropropane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2,4-Trimethylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2-Dibromo-3-Chloropropane	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2-Dibromoethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2-Dichlorobenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2-Dichloroethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,2-Dichloropropane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,3,5-Trimethylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,3-Dichlorobenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,3-Dichloropropane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
1,4-Dichlorobenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
2,2-Dichloropropane	ND		4.1		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
2-Butanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
2-Chlorotoluene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
2-Hexanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
4-Chlorotoluene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
4-Methyl-2-pentanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Acetone	ND		41		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Benzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Bromobenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Bromochloromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Bromodichloromethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Bromoform	ND		4.1		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Bromomethane	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
cis-1,3-Dichloropropene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Carbon disulfide	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Carbon tetrachloride	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Chlorobenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Chloroethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Chloroform	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Chloromethane	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Dibromochloromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Dibromomethane	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Dichlorodifluoromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Di-isopropyl ether (DIPE)	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Ethanol	ND		410		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Ethylbenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Ethyl-t-butyl ether (ETBE)	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Isopropylbenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Methylene Chloride	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Methyl-t-Butyl Ether (MTBE)	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Naphthalene	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
n-Butylbenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
N-Propylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
o-Xylene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
m,p-Xylene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
p-Isopropyltoluene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
sec-Butylbenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Styrene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
trans-1,2-Dichloroethene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
trans-1,3-Dichloropropene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Tert-amyl-methyl ether (TAME)	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
tert-Butyl alcohol (TBA)	ND		17		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
tert-Butylbenzene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Tetrachloroethene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Toluene	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Trichloroethene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Trichlorofluoromethane	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Vinyl acetate	ND		8.3		ug/Kg		06/11/20 19:57	06/12/20 12:36	1
Vinyl chloride	ND		0.83		ug/Kg		06/11/20 19:57	06/12/20 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 155*	*06/11/20 19:57*	*06/12/20 12:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*06/11/20 19:57*	*06/12/20 12:36*	*1*
Dibromofluoromethane (Surr)	*102*		*79 - 133*	*06/11/20 19:57*	*06/12/20 12:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/11/20 19:57*	*06/12/20 12:36*	*1*

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1,1-Trichloroethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1,2-Trichloroethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1-Dichloroethane	ND	*	0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1-Dichloroethene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,1-Dichloropropene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2,3-Trichloropropane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2,4-Trimethylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2-Dibromo-3-Chloropropane	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2-Dibromoethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2-Dichlorobenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2-Dichloroethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,2-Dichloropropane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,3,5-Trimethylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,3-Dichlorobenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,3-Dichloropropane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
1,4-Dichlorobenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
2,2-Dichloropropane	ND		4.2		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
2-Butanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
2-Chlorotoluene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
2-Hexanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
4-Chlorotoluene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
4-Methyl-2-pentanone	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Acetone	ND		42		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Benzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Bromobenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Bromochloromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Bromodichloromethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Bromoform	ND		4.2		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Bromomethane	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
cis-1,2-Dichloroethene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
cis-1,3-Dichloropropene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Carbon disulfide	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Carbon tetrachloride	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Chlorobenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Chloroethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Chloroform	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Chloromethane	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Dibromochloromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Dibromomethane	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Dichlorodifluoromethane	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Di-isopropyl ether (DIPE)	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Ethanol	ND		420		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Ethylbenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Ethyl-t-butyl ether (ETBE)	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Isopropylbenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Methylene Chloride	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Naphthalene	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
n-Butylbenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
N-Propylbenzene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
o-Xylene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
m,p-Xylene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
p-Isopropyltoluene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
sec-Butylbenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Styrene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
trans-1,2-Dichloroethene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
trans-1,3-Dichloropropene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Tert-amyl-methyl ether (TAME)	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
tert-Butyl alcohol (TBA)	ND		17		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
tert-Butylbenzene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Tetrachloroethene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Toluene	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Trichloroethene	ND		1.7		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Trichlorofluoromethane	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Vinyl acetate	ND		8.4		ug/Kg		06/11/20 19:57	06/12/20 13:02	1
Vinyl chloride	ND		0.84		ug/Kg		06/11/20 19:57	06/12/20 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 155*	*06/11/20 19:57*	*06/12/20 13:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*06/11/20 19:57*	*06/12/20 13:02*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 133*	*06/11/20 19:57*	*06/12/20 13:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/11/20 19:57*	*06/12/20 13:02*	*1*

Method: 8270C SIM - PAHs (GC/MS SIM)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
2-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Acenaphthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Acenaphthylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Benzo[g,h,i]perylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Benzo[k]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Benzo[a]anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Benzo[a]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Benzo[b]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Chrysene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Dibenz(a,h)anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Fluorene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Indeno[1,2,3-cd]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Naphthalene	**0.053**		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Phenanthrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1
Pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*22 - 130*	*06/12/20 09:22*	*06/15/20 12:49*	*1*
Nitrobenzene-d5 (Surr)	*51*		*20 - 145*	*06/12/20 09:22*	*06/15/20 12:49*	*1*
p-Terphenyl-d14 (Surr)	*66*		*33 - 147*	*06/12/20 09:22*	*06/15/20 12:49*	*1*

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
2-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Acenaphthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Acenaphthylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Benzo[g,h,i]perylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Benzo[k]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Benzo[a]anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Benzo[a]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Benzo[b]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Chrysene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Dibenz(a,h)anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Fluorene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Indeno[1,2,3-cd]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Naphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Phenanthrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1
Pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*22 - 130*	*06/12/20 09:22*	*06/15/20 13:09*	*1*
Nitrobenzene-d5 (Surr)	*60*		*20 - 145*	*06/12/20 09:22*	*06/15/20 13:09*	*1*

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*69*		*33 - 147*	*06/12/20 09:22*	*06/15/20 13:09*	*1*

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
2-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Acenaphthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Acenaphthylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Benzo[g,h,i]perylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Benzo[k]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Benzo[a]anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Benzo[a]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Benzo[b]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Chrysene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Dibenz(a,h)anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Fluorene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Indeno[1,2,3-cd]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Naphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Phenanthrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1
Pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*22 - 130*	*06/12/20 09:22*	*06/15/20 13:28*	*1*
Nitrobenzene-d5 (Surr)	*69*		*20 - 145*	*06/12/20 09:22*	*06/15/20 13:28*	*1*
p-Terphenyl-d14 (Surr)	*74*		*33 - 147*	*06/12/20 09:22*	*06/15/20 13:28*	*1*

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
2-Methylnaphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Acenaphthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Acenaphthylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Benzo[g,h,i]perylene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Benzo[k]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Benzo[a]anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Benzo[a]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Benzo[b]fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Chrysene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Dibenz(a,h)anthracene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Fluoranthene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Fluorene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Indeno[1,2,3-cd]pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Naphthalene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1
Pyrene	ND		0.020		mg/Kg		06/12/20 09:22	06/15/20 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*22 - 130*	*06/12/20 09:22*	*06/15/20 13:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*20 - 145*	*06/12/20 09:22*	*06/15/20 13:48*	*1*
p-Terphenyl-d14 (Surr)	*72*		*33 - 147*	*06/12/20 09:22*	*06/15/20 13:48*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8015B - Gasoline Range Organics - (GC)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.10		mg/Kg		06/11/20 19:57	06/12/20 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*42 - 126*	*06/11/20 19:57*	*06/12/20 12:32*	*1*

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.11		mg/Kg		06/11/20 19:57	06/12/20 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*		*42 - 126*	*06/11/20 19:57*	*06/12/20 12:08*	*1*

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.079		mg/Kg		06/11/20 19:57	06/12/20 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*42 - 126*	*06/11/20 19:57*	*06/12/20 11:45*	*1*

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.13		mg/Kg		06/11/20 19:57	06/12/20 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*42 - 126*	*06/11/20 19:57*	*06/12/20 11:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C7 as C7	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C8 as C8	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C9-C10	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C11-C12	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C13-C14	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C15-C16	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C17-C18	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C19-C20	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C21-C22	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C23-C24	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C25-C28	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C29-C32	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C33-C36	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C37-C40	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C41-C44	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
C6-C44	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1
Diesel Range Organics [C10-C28]	ND		4.8		mg/Kg		06/11/20 19:24	06/12/20 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*105*		*61 - 145*	*06/11/20 19:24*	*06/12/20 10:56*	*1*

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C7 as C7	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C8 as C8	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C9-C10	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C11-C12	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C13-C14	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C15-C16	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C17-C18	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C19-C20	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C21-C22	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C23-C24	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C25-C28	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C29-C32	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C33-C36	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C37-C40	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C41-C44	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
C6-C44	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1
Diesel Range Organics [C10-C28]	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*61 - 145*	*06/11/20 19:24*	*06/12/20 11:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C7 as C7	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C8 as C8	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C9-C10	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C11-C12	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C13-C14	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C15-C16	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C17-C18	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C19-C20	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C21-C22	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C23-C24	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C25-C28	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C29-C32	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C33-C36	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C37-C40	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C41-C44	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
C6-C44	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1
Diesel Range Organics [C10-C28]	ND		5.0		mg/Kg		06/11/20 19:24	06/12/20 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*61 - 145*	*06/11/20 19:24*	*06/12/20 11:38*	*1*

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C7 as C7	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C8 as C8	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C9-C10	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C11-C12	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C13-C14	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C15-C16	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C17-C18	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C19-C20	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C21-C22	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C23-C24	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C25-C28	**9.3**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C29-C32	**16**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C33-C36	**13**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C37-C40	**7.9**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C41-C44	ND		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
C6-C44	**50**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1
Diesel Range Organics [C10-C28]	**11**		4.9		mg/Kg		06/11/20 19:24	06/12/20 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*61 - 145*	*06/11/20 19:24*	*06/12/20 13:02*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1221	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1232	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1242	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1248	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1254	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1260	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1262	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1
Aroclor-1268	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*25 - 126*	*06/12/20 09:18*	*06/13/20 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 155*	*06/12/20 09:18*	*06/13/20 00:41*	*1*

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1221	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1232	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1242	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1248	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1254	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1260	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1262	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1
Aroclor-1268	ND		50		ug/Kg		06/12/20 09:18	06/13/20 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*	*06/12/20 09:18*	*06/13/20 00:59*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*20 - 155*	*06/12/20 09:18*	*06/13/20 00:59*	*1*

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1221	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1232	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1242	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1248	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1254	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1260	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1262	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1
Aroclor-1268	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*25 - 126*	*06/12/20 09:18*	*06/13/20 01:17*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 155*	*06/12/20 09:18*	*06/13/20 01:17*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1221	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1232	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1242	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1248	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1254	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1260	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1262	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1
Aroclor-1268	ND		50		ug/Kg		06/12/20 09:18	06/13/20 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*25 - 126*	*06/12/20 09:18*	*06/13/20 01:35*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 155*	*06/12/20 09:18*	*06/13/20 01:35*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	0.739		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Arsenic	**8.71**		0.739		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Barium	**119**		0.493		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Beryllium	**0.625**		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Cadmium	**0.837**		0.493		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Chromium	**14.2**		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Cobalt	**10.2**		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Copper	**24.0**		0.493		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Lead	**4.47**		0.493		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Molybdenum	ND	L	0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Nickel	**13.9**		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Selenium	ND	L	0.739		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Silver	ND		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Thallium	ND		0.739		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Vanadium	**37.3**		0.246		mg/Kg		06/12/20 14:30	06/15/20 10:16	1
Zinc	**47.1**		0.985		mg/Kg		06/12/20 14:30	06/15/20 10:16	1

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.773		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Arsenic	**2.55**		0.773		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Barium	**119**		0.515		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Beryllium	**0.525**		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Cadmium	ND		0.515		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Chromium	**12.0**		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Cobalt	**8.80**		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Copper	**19.2**		0.515		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Lead	**5.43**		0.515		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Molybdenum	ND	L	0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Nickel	**11.3**		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Selenium	ND	L	0.773		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Silver	ND		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Thallium	ND		0.773		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Vanadium	**31.3**		0.258		mg/Kg		06/12/20 14:30	06/12/20 21:35	1
Zinc	**41.6**		1.03		mg/Kg		06/12/20 14:30	06/12/20 21:35	1

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.735		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Arsenic	**2.80**		0.735		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Barium	**117**		0.490		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Beryllium	**0.575**		0.245		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Cadmium	ND		0.490		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Chromium	**13.4**		0.245		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Cobalt	**9.88**		0.245		mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Copper	**20.5**		0.490		mg/Kg		06/12/20 14:30	06/12/20 21:37	1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.92**		0.490	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Molybdenum	ND	L	0.245	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Nickel	**12.4**		0.245	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Selenium	ND	L	0.735	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Silver	ND		0.245	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Thallium	ND		0.735	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Vanadium	**34.8**		0.245	mg/Kg		06/12/20 14:30	06/12/20 21:37	1
Zinc	**42.4**		0.980	mg/Kg		06/12/20 14:30	06/12/20 21:37	1

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.894**		0.746	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Arsenic	**1.34**		0.746	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Barium	**130**		0.498	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Beryllium	**0.600**		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Cadmium	ND		0.498	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Chromium	**13.7**		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Cobalt	**9.95**		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Copper	**20.6**		0.498	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Lead	**1.23**		0.498	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Molybdenum	ND	L	0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Nickel	**12.8**		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Selenium	ND	L	0.746	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Silver	ND		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Thallium	ND		0.746	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Vanadium	**35.6**		0.249	mg/Kg		06/12/20 14:30	06/12/20 22:03	1
Zinc	**43.6**		0.995	mg/Kg		06/12/20 14:30	06/12/20 22:03	1

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: S-1
Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.133**		0.0862		mg/Kg		06/12/20 14:30	06/15/20 13:04	1

Client Sample ID: S-2
Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.293**		0.0820		mg/Kg		06/12/20 14:30	06/15/20 13:11	1

Client Sample ID: S-3
Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.122**		0.0877		mg/Kg		06/12/20 14:30	06/15/20 13:14	1

Client Sample ID: S-4
Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4
Matrix: Solid

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833		mg/Kg		06/12/20 14:30	06/15/20 13:16	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(71-155)	(80-120)	(79-133)	(80-120)
570-30685-1	S-1	111	100	108	100
570-30685-2	S-2	112	101	106	100
570-30685-3	S-3	109	101	102	100
570-30685-4	S-4	111	102	105	100
LCS 570-74963/4	Lab Control Sample	94	102	102	99
LCSD 570-74963/5	Lab Control Sample Dup	97	101	102	100
MB 570-74963/7	Method Blank	99	100	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - PAHs (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(22-130)	(20-145)	(33-147)
570-30685-1	S-1	48	51	66
570-30685-1 MS	S-1	74	80	88
570-30685-1 MSD	S-1	65	71	77
570-30685-2	S-2	56	60	69
570-30685-3	S-3	63	69	74
570-30685-4	S-4	61	65	72
LCS 570-75006/2-A	Lab Control Sample	72	79	84
LCSD 570-75006/3-A	Lab Control Sample Dup	73	79	85

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(42-126)
570-30685-1	S-1	78
570-30685-2	S-2	57
570-30685-3	S-3	80
570-30685-4	S-4	79
LCS 570-74988/3	Lab Control Sample	87
LCSD 570-74988/4	Lab Control Sample Dup	88
MB 570-74988/6	Method Blank	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Job ID: 570-30685-1
Project/Site: PNR0651FW2/267B

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCSN1 (61-145)
570-30620-A-1-G MS	Matrix Spike	98
570-30620-A-1-H MSD	Matrix Spike Duplicate	98
570-30685-1	S-1	105
570-30685-2	S-2	95
570-30685-3	S-3	95
570-30685-4	S-4	95
LCS 570-74876/2-A	Lab Control Sample	96
LCSD 570-74876/3-A	Lab Control Sample Dup	98
MB 570-74876/1-A	Method Blank	103

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (25-126)	DCB1 (20-155)
570-30685-1	S-1	78	75
570-30685-2	S-2	80	80
570-30685-2 MS	S-2	73	75
570-30685-2 MSD	S-2	70	71
570-30685-3	S-3	83	81
570-30685-4	S-4	81	78
LCS 570-75005/2-A	Lab Control Sample	92	90
LCSD 570-75005/3-A	Lab Control Sample Dup	91	92
MB 570-75005/1-A	Method Blank	92	93

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-74963/7
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,1,1-Trichloroethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/12/20 10:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9		ug/Kg			06/12/20 10:28	1
1,1,2-Trichloroethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,1-Dichloroethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,1-Dichloroethene	ND		0.99		ug/Kg			06/12/20 10:28	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/12/20 10:28	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg			06/12/20 10:28	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg			06/12/20 10:28	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg			06/12/20 10:28	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/12/20 10:28	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg			06/12/20 10:28	1
1,2-Dibromoethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,2-Dichlorobenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
1,2-Dichloroethane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,2-Dichloropropane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/12/20 10:28	1
1,3-Dichlorobenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
1,3-Dichloropropane	ND		0.99		ug/Kg			06/12/20 10:28	1
1,4-Dichlorobenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
2,2-Dichloropropane	ND		5.0		ug/Kg			06/12/20 10:28	1
2-Butanone	ND		20		ug/Kg			06/12/20 10:28	1
2-Chlorotoluene	ND		0.99		ug/Kg			06/12/20 10:28	1
2-Hexanone	ND		20		ug/Kg			06/12/20 10:28	1
4-Chlorotoluene	ND		0.99		ug/Kg			06/12/20 10:28	1
4-Methyl-2-pentanone	ND		20		ug/Kg			06/12/20 10:28	1
Acetone	ND		50		ug/Kg			06/12/20 10:28	1
Benzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Bromobenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Bromochloromethane	ND		2.0		ug/Kg			06/12/20 10:28	1
Bromodichloromethane	ND		0.99		ug/Kg			06/12/20 10:28	1
Bromoform	ND		5.0		ug/Kg			06/12/20 10:28	1
Bromomethane	ND		20		ug/Kg			06/12/20 10:28	1
cis-1,2-Dichloroethene	ND		0.99		ug/Kg			06/12/20 10:28	1
cis-1,3-Dichloropropene	ND		0.99		ug/Kg			06/12/20 10:28	1
Carbon disulfide	ND		9.9		ug/Kg			06/12/20 10:28	1
Carbon tetrachloride	ND		0.99		ug/Kg			06/12/20 10:28	1
Chlorobenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Chloroethane	ND		2.0		ug/Kg			06/12/20 10:28	1
Chloroform	ND		0.99		ug/Kg			06/12/20 10:28	1
Chloromethane	ND		20		ug/Kg			06/12/20 10:28	1
Dibromochloromethane	ND		2.0		ug/Kg			06/12/20 10:28	1
Dibromomethane	ND		0.99		ug/Kg			06/12/20 10:28	1
Dichlorodifluoromethane	ND		2.0		ug/Kg			06/12/20 10:28	1
Di-isopropyl ether (DIPE)	ND		0.99		ug/Kg			06/12/20 10:28	1
Ethanol	ND		500		ug/Kg			06/12/20 10:28	1
Ethylbenzene	ND		0.99		ug/Kg			06/12/20 10:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-74963/7
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		0.99		ug/Kg			06/12/20 10:28	1
Isopropylbenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Methylene Chloride	ND		9.9		ug/Kg			06/12/20 10:28	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/Kg			06/12/20 10:28	1
Naphthalene	ND		9.9		ug/Kg			06/12/20 10:28	1
n-Butylbenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
N-Propylbenzene	ND		2.0		ug/Kg			06/12/20 10:28	1
o-Xylene	ND		0.99		ug/Kg			06/12/20 10:28	1
m,p-Xylene	ND		2.0		ug/Kg			06/12/20 10:28	1
p-Isopropyltoluene	ND		0.99		ug/Kg			06/12/20 10:28	1
sec-Butylbenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Styrene	ND		0.99		ug/Kg			06/12/20 10:28	1
trans-1,2-Dichloroethene	ND		0.99		ug/Kg			06/12/20 10:28	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/12/20 10:28	1
Tert-amyl-methyl ether (TAME)	ND		0.99		ug/Kg			06/12/20 10:28	1
tert-Butyl alcohol (TBA)	ND		20		ug/Kg			06/12/20 10:28	1
tert-Butylbenzene	ND		0.99		ug/Kg			06/12/20 10:28	1
Tetrachloroethene	ND		0.99		ug/Kg			06/12/20 10:28	1
Toluene	ND		0.99		ug/Kg			06/12/20 10:28	1
Trichloroethene	ND		2.0		ug/Kg			06/12/20 10:28	1
Trichlorofluoromethane	ND		9.9		ug/Kg			06/12/20 10:28	1
Vinyl acetate	ND		9.9		ug/Kg			06/12/20 10:28	1
Vinyl chloride	ND		0.99		ug/Kg			06/12/20 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 155*		*06/12/20 10:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/12/20 10:28*	*1*
Dibromofluoromethane (Surr)	*102*		*79 - 133*		*06/12/20 10:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/12/20 10:28*	*1*

Lab Sample ID: LCS 570-74963/4
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.97		ug/Kg		102	73 - 133
1,1,1-Trichloroethane	50.0	45.87		ug/Kg		92	71 - 131
1,1,2,2-Tetrachloroethane	50.0	48.83		ug/Kg		98	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.03	* me	ug/Kg		76	77 - 125
1,1,2-Trichloroethane	50.0	46.93		ug/Kg		94	80 - 120
1,1-Dichloroethane	50.0	38.35		ug/Kg		77	74 - 120
1,1-Dichloroethene	50.0	42.40		ug/Kg		85	71 - 125
1,1-Dichloropropene	50.0	43.08		ug/Kg		86	69 - 120
1,2,3-Trichlorobenzene	50.0	50.05		ug/Kg		100	73 - 127
1,2,3-Trichloropropane	50.0	46.39		ug/Kg		93	60 - 120
1,2,4-Trichlorobenzene	50.0	49.87		ug/Kg		100	74 - 128
1,2,4-Trimethylbenzene	50.0	45.21		ug/Kg		90	75 - 123
1,2-Dibromo-3-Chloropropane	50.0	46.93		ug/Kg		94	54 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-74963/4
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	50.0	49.57		ug/Kg		99	80 - 120
1,2-Dichlorobenzene	50.0	47.50		ug/Kg		95	80 - 120
1,2-Dichloroethane	50.0	43.43		ug/Kg		87	79 - 121
1,2-Dichloropropane	50.0	46.29		ug/Kg		93	77 - 123
1,3,5-Trimethylbenzene	50.0	45.56		ug/Kg		91	80 - 123
1,3-Dichlorobenzene	50.0	46.26		ug/Kg		93	80 - 120
1,3-Dichloropropane	50.0	46.65		ug/Kg		93	80 - 120
1,4-Dichlorobenzene	50.0	44.69		ug/Kg		89	80 - 120
2,2-Dichloropropane	50.0	48.17		ug/Kg		96	58 - 142
2-Butanone	50.0	48.90		ug/Kg		98	56 - 176
2-Chlorotoluene	50.0	43.51		ug/Kg		87	56 - 176
2-Hexanone	50.0	49.08		ug/Kg		98	67 - 151
4-Chlorotoluene	50.0	45.23		ug/Kg		90	67 - 151
4-Methyl-2-pentanone	50.0	48.32		ug/Kg		97	72 - 126
Acetone	50.0	46.22	J	ug/Kg		92	30 - 150
Benzene	50.0	42.89		ug/Kg		86	79 - 120
Bromobenzene	50.0	46.88		ug/Kg		94	80 - 120
Bromochloromethane	50.0	46.15		ug/Kg		92	80 - 120
Bromodichloromethane	50.0	48.16		ug/Kg		96	73 - 127
Bromoform	50.0	55.15		ug/Kg		110	55 - 133
Bromomethane	50.0	39.85		ug/Kg		80	36 - 144
cis-1,2-Dichloroethene	50.0	45.64		ug/Kg		91	80 - 123
cis-1,3-Dichloropropene	50.0	49.33		ug/Kg		99	74 - 128
Carbon disulfide	50.0	41.09		ug/Kg		82	53 - 125
Carbon tetrachloride	50.0	46.59		ug/Kg		93	58 - 142
Chlorobenzene	50.0	43.98		ug/Kg		88	80 - 120
Chloroethane	50.0	45.51		ug/Kg		91	60 - 120
Chloroform	50.0	43.40		ug/Kg		87	80 - 120
Chloromethane	50.0	39.57		ug/Kg		79	50 - 122
Dibromochloromethane	50.0	50.52		ug/Kg		101	50 - 122
Dibromomethane	50.0	46.46		ug/Kg		93	70 - 130
Dichlorodifluoromethane	50.0	40.77		ug/Kg		82	32 - 158
Di-isopropyl ether (DIPE)	50.0	43.65		ug/Kg		87	65 - 131
Ethanol	500	448.4	J	ug/Kg		90	32 - 158
Ethylbenzene	50.0	44.00		ug/Kg		88	57 - 153
Ethyl-t-butyl ether (ETBE)	50.0	42.65		ug/Kg		85	58 - 136
Isopropylbenzene	50.0	45.34		ug/Kg		91	80 - 129
Methylene Chloride	50.0	44.57		ug/Kg		89	72 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	41.90		ug/Kg		84	64 - 124
Naphthalene	50.0	49.99		ug/Kg		100	64 - 124
n-Butylbenzene	50.0	46.74		ug/Kg		93	78 - 126
N-Propylbenzene	50.0	44.67		ug/Kg		89	80 - 122
o-Xylene	50.0	44.55		ug/Kg		89	79 - 127
m,p-Xylene	100	87.64		ug/Kg		88	80 - 122
p-Isopropyltoluene	50.0	46.39		ug/Kg		93	80 - 122
sec-Butylbenzene	50.0	45.27		ug/Kg		91	79 - 127
Styrene	50.0	45.56		ug/Kg		91	80 - 123
trans-1,2-Dichloroethene	50.0	43.54		ug/Kg		87	80 - 120
trans-1,3-Dichloropropene	50.0	49.76		ug/Kg		100	66 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-74963/4
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl-methyl ether (TAME)	50.0	49.23		ug/Kg		98	63 - 129
tert-Butyl alcohol (TBA)	250	238.7		ug/Kg		95	79 - 121
tert-Butylbenzene	50.0	44.29		ug/Kg		89	80 - 128
Tetrachloroethene	50.0	43.36		ug/Kg		87	75 - 123
Toluene	50.0	43.65		ug/Kg		87	80 - 120
Trichloroethene	50.0	43.82		ug/Kg		88	80 - 120
Trichlorofluoromethane	50.0	48.39		ug/Kg		97	70 - 136
Vinyl acetate	50.0	50.48		ug/Kg		101	51 - 159
Vinyl chloride	50.0	44.17		ug/Kg		88	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 155*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*79 - 133*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 570-74963/5
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.60		ug/Kg		93	73 - 133	9	20
1,1,1-Trichloroethane	50.0	42.92		ug/Kg		86	71 - 131	7	20
1,1,2,2-Tetrachloroethane	50.0	44.76		ug/Kg		90	77 - 120	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	35.47	* me	ug/Kg		71	77 - 125	7	20
1,1,2-Trichloroethane	50.0	44.90		ug/Kg		90	80 - 120	4	20
1,1-Dichloroethane	50.0	36.67	* me	ug/Kg		73	74 - 120	4	20
1,1-Dichloroethene	50.0	40.63		ug/Kg		81	71 - 125	4	20
1,1-Dichloropropene	50.0	41.12		ug/Kg		82	69 - 120	5	20
1,2,3-Trichlorobenzene	50.0	46.31		ug/Kg		93	73 - 127	8	20
1,2,3-Trichloropropane	50.0	46.03		ug/Kg		92	60 - 120	1	20
1,2,4-Trichlorobenzene	50.0	46.32		ug/Kg		93	74 - 128	7	20
1,2,4-Trimethylbenzene	50.0	42.04		ug/Kg		84	75 - 123	7	20
1,2-Dibromo-3-Chloropropane	50.0	47.75		ug/Kg		96	54 - 132	2	20
1,2-Dibromoethane	50.0	46.59		ug/Kg		93	80 - 120	6	20
1,2-Dichlorobenzene	50.0	44.37		ug/Kg		89	80 - 120	7	20
1,2-Dichloroethane	50.0	41.82		ug/Kg		84	79 - 121	4	20
1,2-Dichloropropane	50.0	44.27		ug/Kg		89	77 - 123	4	25
1,3,5-Trimethylbenzene	50.0	41.95		ug/Kg		84	80 - 123	8	20
1,3-Dichlorobenzene	50.0	42.74		ug/Kg		85	80 - 120	8	20
1,3-Dichloropropane	50.0	44.06		ug/Kg		88	80 - 120	6	20
1,4-Dichlorobenzene	50.0	42.02		ug/Kg		84	80 - 120	6	20
2,2-Dichloropropane	50.0	45.60		ug/Kg		91	58 - 142	5	20
2-Butanone	50.0	44.09		ug/Kg		88	56 - 176	10	20
2-Chlorotoluene	50.0	41.36		ug/Kg		83	56 - 176	5	20
2-Hexanone	50.0	45.60		ug/Kg		91	67 - 151	7	20
4-Chlorotoluene	50.0	42.12		ug/Kg		84	67 - 151	7	20
4-Methyl-2-pentanone	50.0	48.07		ug/Kg		96	72 - 126	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-74963/5
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	50.0	46.77	J	ug/Kg		94	30 - 150	1	20
Benzene	50.0	41.32		ug/Kg		83	79 - 120	4	20
Bromobenzene	50.0	43.34		ug/Kg		87	80 - 120	8	20
Bromochloromethane	50.0	44.94		ug/Kg		90	80 - 120	3	20
Bromodichloromethane	50.0	47.38		ug/Kg		95	73 - 127	2	20
Bromoform	50.0	51.03		ug/Kg		102	55 - 133	8	20
Bromomethane	50.0	36.85		ug/Kg		74	36 - 144	8	20
cis-1,2-Dichloroethene	50.0	43.86		ug/Kg		88	80 - 123	4	20
cis-1,3-Dichloropropene	50.0	47.43		ug/Kg		95	74 - 128	4	20
Carbon disulfide	50.0	39.27		ug/Kg		79	53 - 125	5	20
Carbon tetrachloride	50.0	44.15		ug/Kg		88	58 - 142	5	20
Chlorobenzene	50.0	41.82		ug/Kg		84	80 - 120	5	20
Chloroethane	50.0	44.30		ug/Kg		89	60 - 120	3	20
Chloroform	50.0	41.38		ug/Kg		83	80 - 120	5	20
Chloromethane	50.0	37.41		ug/Kg		75	50 - 122	6	20
Dibromochloromethane	50.0	48.29		ug/Kg		97	50 - 122	5	20
Dibromomethane	50.0	45.69		ug/Kg		91	70 - 130	2	20
Dichlorodifluoromethane	50.0	39.05		ug/Kg		78	32 - 158	4	20
Di-isopropyl ether (DIPE)	50.0	41.85		ug/Kg		84	65 - 131	4	20
Ethanol	500	406.6	J	ug/Kg		81	32 - 158	10	27
Ethylbenzene	50.0	40.93		ug/Kg		82	57 - 153	7	20
Ethyl-t-butyl ether (ETBE)	50.0	41.22		ug/Kg		82	58 - 136	3	20
Isopropylbenzene	50.0	41.65		ug/Kg		83	80 - 129	8	20
Methylene Chloride	50.0	43.29		ug/Kg		87	72 - 120	3	20
Methyl-t-Butyl Ether (MTBE)	50.0	40.52		ug/Kg		81	64 - 124	3	20
Naphthalene	50.0	46.99		ug/Kg		94	64 - 124	6	20
n-Butylbenzene	50.0	42.40		ug/Kg		85	78 - 126	10	25
N-Propylbenzene	50.0	41.59		ug/Kg		83	80 - 122	7	20
o-Xylene	50.0	41.88		ug/Kg		84	79 - 127	6	20
m,p-Xylene	100	82.34		ug/Kg		82	80 - 122	6	20
p-Isopropyltoluene	50.0	41.60		ug/Kg		83	80 - 122	11	20
sec-Butylbenzene	50.0	41.85		ug/Kg		84	79 - 127	8	20
Styrene	50.0	43.07		ug/Kg		86	80 - 123	6	20
trans-1,2-Dichloroethene	50.0	40.39		ug/Kg		81	80 - 120	8	20
trans-1,3-Dichloropropene	50.0	47.70		ug/Kg		95	66 - 120	4	20
Tert-amyl-methyl ether (TAME)	50.0	47.05		ug/Kg		94	63 - 129	5	20
tert-Butyl alcohol (TBA)	250	231.6		ug/Kg		93	79 - 121	3	20
tert-Butylbenzene	50.0	41.62		ug/Kg		83	80 - 128	6	20
Tetrachloroethene	50.0	40.93		ug/Kg		82	75 - 123	6	20
Toluene	50.0	41.65		ug/Kg		83	80 - 120	5	20
Trichloroethene	50.0	42.02		ug/Kg		84	80 - 120	4	20
Trichlorofluoromethane	50.0	46.38		ug/Kg		93	70 - 136	4	20
Vinyl acetate	50.0	47.98		ug/Kg		96	51 - 159	5	20
Vinyl chloride	50.0	41.51		ug/Kg		83	68 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 155*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-74963/5
Matrix: Solid
Analysis Batch: 74963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*79 - 133*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270C SIM - PAHs (GC/MS SIM)

Lab Sample ID: LCS 570-75006/2-A
Matrix: Solid
Analysis Batch: 75430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	0.200	0.1871		mg/Kg		94	54 - 132
2-Methylnaphthalene	0.200	0.1862		mg/Kg		93	50 - 127
Acenaphthene	0.200	0.1794		mg/Kg		90	53 - 125
Acenaphthylene	0.200	0.1977		mg/Kg		99	50 - 123
Anthracene	0.200	0.1924		mg/Kg		96	50 - 132
Benzo[g,h,i]perylene	0.200	0.2020		mg/Kg		101	50 - 130
Benzo[k]fluoranthene	0.200	0.1750		mg/Kg		88	49 - 150
Benzo[a]anthracene	0.200	0.1814		mg/Kg		91	50 - 133
Benzo[a]pyrene	0.200	0.1659		mg/Kg		83	50 - 134
Benzo[b]fluoranthene	0.200	0.1922		mg/Kg		96	50 - 142
Chrysene	0.200	0.1727		mg/Kg		86	51 - 129
Dibenz(a,h)anthracene	0.200	0.2062		mg/Kg		103	50 - 133
Fluoranthene	0.200	0.1896		mg/Kg		95	55 - 127
Fluorene	0.200	0.1762		mg/Kg		88	55 - 127
Indeno[1,2,3-cd]pyrene	0.200	0.1992		mg/Kg		100	50 - 148
Naphthalene	0.200	0.1734		mg/Kg		87	51 - 129
Phenanthrene	0.200	0.1916		mg/Kg		96	50 - 122
Pyrene	0.200	0.1827		mg/Kg		91	50 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*72*		*22 - 130*
Nitrobenzene-d5 (Surr)	*79*		*20 - 145*
p-Terphenyl-d14 (Surr)	*84*		*33 - 147*

Lab Sample ID: LCSD 570-75006/3-A
Matrix: Solid
Analysis Batch: 75430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	0.200	0.1931		mg/Kg		97	54 - 132	3	20
2-Methylnaphthalene	0.200	0.1923		mg/Kg		96	50 - 127	3	20
Acenaphthene	0.200	0.1828		mg/Kg		91	53 - 125	2	20
Acenaphthylene	0.200	0.1999		mg/Kg		100	50 - 123	1	20
Anthracene	0.200	0.1972		mg/Kg		99	50 - 132	2	20
Benzo[g,h,i]perylene	0.200	0.2089		mg/Kg		104	50 - 130	3	20
Benzo[k]fluoranthene	0.200	0.1759		mg/Kg		88	49 - 150	1	20
Benzo[a]anthracene	0.200	0.1836		mg/Kg		92	50 - 133	1	20
Benzo[a]pyrene	0.200	0.1691		mg/Kg		85	50 - 134	2	20

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 570-75006/3-A
Matrix: Solid
Analysis Batch: 75430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75006

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene			0.200	0.2020		mg/Kg		101	50 - 142	5	20
Chrysene			0.200	0.1756		mg/Kg		88	51 - 129	2	20
Dibenz(a,h)anthracene			0.200	0.2114		mg/Kg		106	50 - 133	2	20
Fluoranthene			0.200	0.1927		mg/Kg		96	55 - 127	2	20
Fluorene			0.200	0.1784		mg/Kg		89	55 - 127	1	20
Indeno[1,2,3-cd]pyrene			0.200	0.2056		mg/Kg		103	50 - 148	3	20
Naphthalene			0.200	0.1801		mg/Kg		90	51 - 129	4	20
Phenanthrene			0.200	0.1913		mg/Kg		96	50 - 122	0	20
Pyrene			0.200	0.1879		mg/Kg		94	50 - 134	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*22 - 130*
Nitrobenzene-d5 (Surr)	*79*		*20 - 145*
p-Terphenyl-d14 (Surr)	*85*		*33 - 147*

Lab Sample ID: 570-30685-1 MS
Matrix: Solid
Analysis Batch: 75430

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 75006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	ND		0.200	0.1923		mg/Kg		95	34 - 136
2-Methylnaphthalene	ND		0.200	0.1931		mg/Kg		95	29 - 137
Acenaphthene	ND		0.200	0.1861		mg/Kg		92	29 - 137
Acenaphthylene	ND		0.200	0.2013		mg/Kg		101	29 - 131
Anthracene	ND		0.200	0.1972		mg/Kg		99	26 - 134
Benzo[g,h,i]perylene	ND		0.200	0.2057		mg/Kg		100	20 - 148
Benzo[k]fluoranthene	ND		0.200	0.1788		mg/Kg		89	28 - 148
Benzo[a]anthracene	ND		0.200	0.1880		mg/Kg		94	24 - 150
Benzo[a]pyrene	ND		0.200	0.1706		mg/Kg		85	29 - 149
Benzo[b]fluoranthene	ND		0.200	0.2048		mg/Kg		99	21 - 153
Chrysene	ND		0.200	0.1781		mg/Kg		89	25 - 145
Dibenz(a,h)anthracene	ND		0.200	0.2107		mg/Kg		105	20 - 132
Fluoranthene	ND		0.200	0.1963		mg/Kg		95	20 - 151
Fluorene	ND		0.200	0.1754		mg/Kg		88	36 - 132
Indeno[1,2,3-cd]pyrene	ND		0.200	0.2048		mg/Kg		101	20 - 154
Naphthalene	0.053		0.200	0.1806		mg/Kg		64	20 - 150
Phenanthrene	ND		0.200	0.1932		mg/Kg		94	20 - 144
Pyrene	ND		0.200	0.1880		mg/Kg		91	20 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*22 - 130*
Nitrobenzene-d5 (Surr)	*80*		*20 - 145*
p-Terphenyl-d14 (Surr)	*88*		*33 - 147*

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Lab Sample ID: 570-30685-1 MSD
Matrix: Solid
Analysis Batch: 75430

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 75006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	ND		0.200	0.1738		mg/Kg		86	34 - 136	10	29
2-Methylnaphthalene	ND		0.200	0.1740		mg/Kg		85	29 - 137	10	31
Acenaphthene	ND		0.200	0.1651		mg/Kg		81	29 - 137	12	28
Acenaphthylene	ND		0.200	0.1786		mg/Kg		89	29 - 131	12	32
Anthracene	ND		0.200	0.1732		mg/Kg		86	26 - 134	13	27
Benzo[g,h,i]perylene	ND		0.200	0.1951		mg/Kg		95	20 - 148	5	27
Benzo[k]fluoranthene	ND		0.200	0.1657		mg/Kg		83	28 - 148	8	26
Benzo[a]anthracene	ND		0.200	0.1690		mg/Kg		84	24 - 150	11	24
Benzo[a]pyrene	ND		0.200	0.1555		mg/Kg		78	29 - 149	9	22
Benzo[b]fluoranthene	ND		0.200	0.1914		mg/Kg		92	21 - 153	7	26
Chrysene	ND		0.200	0.1630		mg/Kg		81	25 - 145	9	28
Dibenz(a,h)anthracene	ND		0.200	0.1978		mg/Kg		99	20 - 132	6	26
Fluoranthene	ND		0.200	0.1698		mg/Kg		81	20 - 151	15	26
Fluorene	ND		0.200	0.1578		mg/Kg		79	36 - 132	11	27
Indeno[1,2,3-cd]pyrene	ND		0.200	0.1918		mg/Kg		94	20 - 154	7	25
Naphthalene	0.053		0.200	0.1670		mg/Kg		57	20 - 150	8	33
Phenanthrene	ND		0.200	0.1798		mg/Kg		87	20 - 144	7	27
Pyrene	ND		0.200	0.1715		mg/Kg		82	20 - 150	9	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*65*		*22 - 130*
Nitrobenzene-d5 (Surr)	*71*		*20 - 145*
p-Terphenyl-d14 (Surr)	*77*		*33 - 147*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-74988/6
Matrix: Solid
Analysis Batch: 74988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.099		mg/Kg			06/12/20 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*42 - 126*		*06/12/20 10:58*	*1*

Lab Sample ID: LCS 570-74988/3
Matrix: Solid
Analysis Batch: 74988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (C4-C13)			2.01	1.644		mg/Kg		82	70 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*42 - 126*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 570-74988/4
Matrix: Solid
Analysis Batch: 74988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			1.97	1.595		mg/Kg		81	70 - 124	3	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*42 - 126*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-74876/1-A
Matrix: Solid
Analysis Batch: 74716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74876

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C7 as C7	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C8 as C8	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C9-C10	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C11-C12	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C13-C14	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C15-C16	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C17-C18	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C19-C20	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C21-C22	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C23-C24	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C25-C28	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C29-C32	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C33-C36	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C37-C40	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C41-C44	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
C6-C44	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1
Diesel Range Organics [C10-C28]	ND		5.0		mg/Kg		06/11/20 17:48	06/12/20 04:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*103*		*61 - 145*	*06/11/20 17:48*	*06/12/20 04:37*	*1*

Lab Sample ID: LCS 570-74876/2-A
Matrix: Solid
Analysis Batch: 74716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74876

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			400	442.5		mg/Kg		111	67 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*96*		*61 - 145*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 570-74876/3-A
Matrix: Solid
Analysis Batch: 74716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74876

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	443.8		mg/Kg		111	67 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*98*		*61 - 145*

Lab Sample ID: 570-30620-A-1-G MS
Matrix: Solid
Analysis Batch: 74716

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74876

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	ND		397	446.4		mg/Kg		112	33 - 153		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*98*		*61 - 145*

Lab Sample ID: 570-30620-A-1-H MSD
Matrix: Solid
Analysis Batch: 74716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74876

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		396	447.1		mg/Kg		113	33 - 153	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*98*		*61 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-75005/1-A
Matrix: Solid
Analysis Batch: 74992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75005

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1221	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1232	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1242	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1248	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1254	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1260	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1262	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1
Aroclor-1268	ND		50		ug/Kg		06/12/20 09:18	06/12/20 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*25 - 126*	*06/12/20 09:18*	*06/12/20 23:12*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*20 - 155*	*06/12/20 09:18*	*06/12/20 23:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 570-75005/2-A
Matrix: Solid
Analysis Batch: 74992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75005

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			100	98.83		ug/Kg		99	50 - 142		
Aroclor-1260			100	105.6		ug/Kg		106	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*92*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 155*

Lab Sample ID: LCSD 570-75005/3-A
Matrix: Solid
Analysis Batch: 74992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75005

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016			100	99.13		ug/Kg		99	50 - 142	0	30
Aroclor-1260			100	103.7		ug/Kg		104	50 - 150	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*91*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*92*		*20 - 155*

Lab Sample ID: 570-30685-2 MS
Matrix: Solid
Analysis Batch: 74992

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 75005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	ND		99.6	83.11		ug/Kg		83	20 - 175		
Aroclor-1260	ND		99.6	105.6		ug/Kg		106	20 - 180		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*73*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 155*

Lab Sample ID: 570-30685-2 MSD
Matrix: Solid
Analysis Batch: 74992

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 75005

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	ND		99.8	81.02		ug/Kg		81	20 - 175	3	40
Aroclor-1260	ND		99.8	104.2		ug/Kg		104	20 - 180	1	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*70*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*71*		*20 - 155*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-75110/1-A
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75110

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.739		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Arsenic	ND		0.739		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Barium	ND		0.493		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Beryllium	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Cadmium	ND		0.493		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Chromium	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Cobalt	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Copper	ND		0.493		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Lead	ND		0.493		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Molybdenum	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Nickel	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Selenium	ND		0.739		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Silver	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Thallium	ND		0.739		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Vanadium	ND		0.246		mg/Kg		06/12/20 14:30	06/12/20 21:21	1
Zinc	ND		0.985		mg/Kg		06/12/20 14:30	06/12/20 21:21	1

Lab Sample ID: LCS 570-75110/2-A
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75110

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			24.9	23.32		mg/Kg		94	80 - 120		
Arsenic			24.9	22.07		mg/Kg		89	80 - 120		
Barium			24.9	25.00		mg/Kg		101	80 - 120		
Beryllium			24.9	22.93		mg/Kg		92	80 - 120		
Cadmium			24.9	23.37		mg/Kg		94	80 - 120		
Chromium			24.9	23.79		mg/Kg		96	80 - 120		
Cobalt			24.9	24.23		mg/Kg		97	80 - 120		
Copper			24.9	25.14		mg/Kg		101	80 - 120		
Lead			24.9	24.38		mg/Kg		98	80 - 120		
Molybdenum			24.9	23.25		mg/Kg		93	80 - 120		
Nickel			24.9	24.76		mg/Kg		100	80 - 120		
Selenium			24.9	23.80		mg/Kg		96	80 - 120		
Silver			12.4	12.29		mg/Kg		99	80 - 120		
Thallium			24.9	24.61		mg/Kg		99	80 - 120		
Vanadium			24.9	23.56		mg/Kg		95	80 - 120		
Zinc			24.9	24.05		mg/Kg		97	80 - 120		

Lab Sample ID: LCSD 570-75110/3-A
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony			24.4	22.81		mg/Kg		94	80 - 120	2	20
Arsenic			24.4	22.82		mg/Kg		94	80 - 120	3	20
Barium			24.4	24.64		mg/Kg		101	80 - 120	1	20
Beryllium			24.4	22.51		mg/Kg		92	80 - 120	2	20
Cadmium			24.4	23.25		mg/Kg		95	80 - 120	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-75110/3-A
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium			24.4	23.35		mg/Kg		96	80 - 120	2	20
Cobalt			24.4	24.09		mg/Kg		99	80 - 120	1	20
Copper			24.4	24.64		mg/Kg		101	80 - 120	2	20
Lead			24.4	24.25		mg/Kg		99	80 - 120	1	20
Molybdenum			24.4	23.33		mg/Kg		96	80 - 120	0	20
Nickel			24.4	24.56		mg/Kg		101	80 - 120	1	20
Selenium			24.4	22.48		mg/Kg		92	80 - 120	6	20
Silver			12.2	12.07		mg/Kg		99	80 - 120	2	20
Thallium			24.4	24.73		mg/Kg		101	80 - 120	0	20
Vanadium			24.4	22.96		mg/Kg		94	80 - 120	3	20
Zinc			24.4	23.94		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 570-30685-1 MS
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 75110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		24.0	5.122	F1	mg/Kg		20	50 - 115
Arsenic	12.9		24.0	32.62		mg/Kg		82	75 - 125
Barium	115		24.0	131.2	4	mg/Kg		67	75 - 125
Beryllium	0.601		24.0	23.06		mg/Kg		93	75 - 125
Cadmium	ND		24.0	21.38		mg/Kg		88	75 - 125
Chromium	13.5		24.0	34.91		mg/Kg		89	75 - 125
Cobalt	9.92		24.0	30.46		mg/Kg		85	75 - 125
Copper	22.5		24.0	45.21		mg/Kg		94	75 - 125
Lead	5.28		24.0	26.81		mg/Kg		90	75 - 125
Molybdenum	ND	L	24.0	20.08		mg/Kg		84	75 - 125
Nickel	12.7		24.0	33.19		mg/Kg		85	75 - 125
Selenium	ND	L	24.0	19.41		mg/Kg		81	75 - 125
Silver	ND		12.0	11.38		mg/Kg		95	75 - 125
Thallium	0.978		24.0	22.96		mg/Kg		91	75 - 125
Vanadium	35.4		24.0	55.94		mg/Kg		86	75 - 125
Zinc	45.3		24.0	63.22		mg/Kg		75	75 - 125

Lab Sample ID: 570-30685-1 MSD
Matrix: Solid
Analysis Batch: 75210

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 75110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		24.9	5.201	F1	mg/Kg		19	50 - 115	2	20
Arsenic	12.9		24.9	32.87		mg/Kg		80	75 - 125	1	20
Barium	115		24.9	134.4	4	mg/Kg		78	75 - 125	2	20
Beryllium	0.601		24.9	24.22		mg/Kg		95	75 - 125	5	20
Cadmium	ND		24.9	22.49		mg/Kg		90	75 - 125	5	20
Chromium	13.5		24.9	36.11		mg/Kg		91	75 - 125	3	20
Cobalt	9.92		24.9	31.67		mg/Kg		87	75 - 125	4	20
Copper	22.5		24.9	47.05		mg/Kg		99	75 - 125	4	20
Lead	5.28		24.9	28.34		mg/Kg		93	75 - 125	6	20
Molybdenum	ND	L	24.9	21.54		mg/Kg		87	75 - 125	7	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-30685-1 MSD — **Client Sample ID: S-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75210 — **Prep Batch: 75110**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	12.7		24.9	34.70		mg/Kg		88	75 - 125	4	20
Selenium	ND	L	24.9	20.03		mg/Kg		81	75 - 125	3	20
Silver	ND		12.4	12.03		mg/Kg		97	75 - 125	6	20
Thallium	0.978		24.9	22.86		mg/Kg		88	75 - 125	0	20
Vanadium	35.4		24.9	57.03		mg/Kg		87	75 - 125	2	20
Zinc	45.3		24.9	65.52		mg/Kg		81	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-75114/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75463 — **Prep Batch: 75114**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820		mg/Kg		06/12/20 14:30	06/15/20 12:57	1

Lab Sample ID: LCS 570-75114/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75463 — **Prep Batch: 75114**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.820	0.8060		mg/Kg		98	85 - 121		

Lab Sample ID: LCSD 570-75114/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75463 — **Prep Batch: 75114**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.820	0.7908		mg/Kg		96	85 - 121	2	10

Lab Sample ID: 570-30685-1 MS — **Client Sample ID: S-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75463 — **Prep Batch: 75114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.133		0.820	0.9052		mg/Kg		94	71 - 137		

Lab Sample ID: 570-30685-1 MSD — **Client Sample ID: S-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75463 — **Prep Batch: 75114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.133		0.847	0.9280		mg/Kg		94	71 - 137	2	14

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-74963/4
Matrix: Solid

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	50.0	50.97		ug/Kg	102	73 - 133	63 - 143	
1,1,1-Trichloroethane	50.0	45.87		ug/Kg	92	71 - 131	61 - 141	
1,1,2,2-Tetrachloroethane	50.0	48.83		ug/Kg	98	77 - 120	70 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.03	* me	ug/Kg	76	77 - 125	69 - 133	ME
1,1,2-Trichloroethane	50.0	46.93		ug/Kg	94	80 - 120	73 - 127	
1,1-Dichloroethane	50.0	38.35		ug/Kg	77	74 - 120	66 - 128	
1,1-Dichloroethene	50.0	42.40		ug/Kg	85	71 - 125	62 - 134	
1,1-Dichloropropene	50.0	43.08		ug/Kg	86	69 - 120	61 - 129	
1,2,3-Trichlorobenzene	50.0	50.05		ug/Kg	100	73 - 127	64 - 136	
1,2,3-Trichloropropane	50.0	46.39		ug/Kg	93	60 - 120	50 - 130	
1,2,4-Trichlorobenzene	50.0	49.87		ug/Kg	100	74 - 128	65 - 137	
1,2,4-Trimethylbenzene	50.0	45.21		ug/Kg	90	75 - 123	67 - 131	
1,2-Dibromo-3-Chloropropane	50.0	46.93		ug/Kg	94	54 - 132	41 - 145	
1,2-Dibromoethane	50.0	49.57		ug/Kg	99	80 - 120	73 - 127	
1,2-Dichlorobenzene	50.0	47.50		ug/Kg	95	80 - 120	73 - 127	
1,2-Dichloroethane	50.0	43.43		ug/Kg	87	79 - 121	72 - 128	
1,2-Dichloropropane	50.0	46.29		ug/Kg	93	77 - 123	69 - 131	
1,3,5-Trimethylbenzene	50.0	45.56		ug/Kg	91	80 - 123	73 - 130	
1,3-Dichlorobenzene	50.0	46.26		ug/Kg	93	80 - 120	73 - 127	
1,3-Dichloropropane	50.0	46.65		ug/Kg	93	80 - 120	73 - 127	
1,4-Dichlorobenzene	50.0	44.69		ug/Kg	89	80 - 120	73 - 127	
2,2-Dichloropropane	50.0	48.17		ug/Kg	96	58 - 142	44 - 156	
2-Butanone	50.0	48.90		ug/Kg	98	56 - 176	36 - 196	
2-Chlorotoluene	50.0	43.51		ug/Kg	87	56 - 176	36 - 196	
2-Hexanone	50.0	49.08		ug/Kg	98	67 - 151	53 - 165	
4-Chlorotoluene	50.0	45.23		ug/Kg	90	67 - 151	53 - 165	
4-Methyl-2-pentanone	50.0	48.32		ug/Kg	97	72 - 126	63 - 135	
Acetone	50.0	46.22	J	ug/Kg	92	30 - 150	10 - 170	
Benzene	50.0	42.89		ug/Kg	86	79 - 120	72 - 127	
Bromobenzene	50.0	46.88		ug/Kg	94	80 - 120	73 - 127	
Bromochloromethane	50.0	46.15		ug/Kg	92	80 - 120	73 - 127	
Bromodichloromethane	50.0	48.16		ug/Kg	96	73 - 127	64 - 136	
Bromoform	50.0	55.15		ug/Kg	110	55 - 133	42 - 146	
Bromomethane	50.0	39.85		ug/Kg	80	36 - 144	18 - 162	
cis-1,2-Dichloroethene	50.0	45.64		ug/Kg	91	80 - 123	73 - 130	
cis-1,3-Dichloropropene	50.0	49.33		ug/Kg	99	74 - 128	65 - 137	
Carbon disulfide	50.0	41.09		ug/Kg	82	53 - 125	41 - 137	
Carbon tetrachloride	50.0	46.59		ug/Kg	93	58 - 142	44 - 156	
Chlorobenzene	50.0	43.98		ug/Kg	88	80 - 120	73 - 127	
Chloroethane	50.0	45.51		ug/Kg	91	60 - 120	50 - 130	
Chloroform	50.0	43.40		ug/Kg	87	80 - 120	73 - 127	
Chloromethane	50.0	39.57		ug/Kg	79	50 - 122	38 - 134	
Dibromochloromethane	50.0	50.52		ug/Kg	101	50 - 122	38 - 134	
Dibromomethane	50.0	46.46		ug/Kg	93	70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	40.77		ug/Kg	82	32 - 158	11 - 179	
Di-isopropyl ether (DIPE)	50.0	43.65		ug/Kg	87	65 - 131	54 - 142	
Ethanol	500	448.4	J	ug/Kg	90	32 - 158	11 - 179	
Ethylbenzene	50.0	44.00		ug/Kg	88	57 - 153	41 - 169	
Ethyl-t-butyl ether (ETBE)	50.0	42.65		ug/Kg	85	58 - 136	45 - 149	

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-74963/4 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Isopropylbenzene	50.0	45.34		ug/Kg	91	80 - 129	72 - 137	
Methylene Chloride	50.0	44.57		ug/Kg	89	72 - 120	64 - 128	
Methyl-t-Butyl Ether (MTBE)	50.0	41.90		ug/Kg	84	64 - 124	54 - 134	
Naphthalene	50.0	49.99		ug/Kg	100	64 - 124	54 - 134	
n-Butylbenzene	50.0	46.74		ug/Kg	93	78 - 126	70 - 134	
N-Propylbenzene	50.0	44.67		ug/Kg	89	80 - 122	73 - 129	
o-Xylene	50.0	44.55		ug/Kg	89	79 - 127	71 - 135	
m,p-Xylene	100	87.64		ug/Kg	88	80 - 122	73 - 129	
p-Isopropyltoluene	50.0	46.39		ug/Kg	93	80 - 122	73 - 129	
sec-Butylbenzene	50.0	45.27		ug/Kg	91	79 - 127	71 - 135	
Styrene	50.0	45.56		ug/Kg	91	80 - 123	73 - 130	
trans-1,2-Dichloroethene	50.0	43.54		ug/Kg	87	80 - 120	73 - 127	
trans-1,3-Dichloropropene	50.0	49.76		ug/Kg	100	66 - 120	57 - 129	
Tert-amyl-methyl ether (TAME)	50.0	49.23		ug/Kg	98	63 - 129	52 - 140	
tert-Butyl alcohol (TBA)	250	238.7		ug/Kg	95	79 - 121	72 - 128	
tert-Butylbenzene	50.0	44.29		ug/Kg	89	80 - 128	72 - 136	
Tetrachloroethene	50.0	43.36		ug/Kg	87	75 - 123	67 - 131	
Toluene	50.0	43.65		ug/Kg	87	80 - 120	73 - 127	
Trichloroethene	50.0	43.82		ug/Kg	88	80 - 120	73 - 127	
Trichlorofluoromethane	50.0	48.39		ug/Kg	97	70 - 136	59 - 147	
Vinyl acetate	50.0	50.48		ug/Kg	101	51 - 159	N/A	
Vinyl chloride	50.0	44.17		ug/Kg	88	68 - 120	59 - 129	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
71	4	1

ME = Marginal Exceedance

Lab Sample ID: LCSD 570-74963/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	50.0	46.60		ug/Kg	93	73 - 133	63 - 143	
1,1,1-Trichloroethane	50.0	42.92		ug/Kg	86	71 - 131	61 - 141	
1,1,2,2-Tetrachloroethane	50.0	44.76		ug/Kg	90	77 - 120	70 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	35.47	* me	ug/Kg	71	77 - 125	69 - 133	ME
1,1,2-Trichloroethane	50.0	44.90		ug/Kg	90	80 - 120	73 - 127	
1,1-Dichloroethane	50.0	36.67	* me	ug/Kg	73	74 - 120	66 - 128	ME
1,1-Dichloroethene	50.0	40.63		ug/Kg	81	71 - 125	62 - 134	
1,1-Dichloropropene	50.0	41.12		ug/Kg	82	69 - 120	61 - 129	
1,2,3-Trichlorobenzene	50.0	46.31		ug/Kg	93	73 - 127	64 - 136	
1,2,3-Trichloropropane	50.0	46.03		ug/Kg	92	60 - 120	50 - 130	
1,2,4-Trichlorobenzene	50.0	46.32		ug/Kg	93	74 - 128	65 - 137	
1,2,4-Trimethylbenzene	50.0	42.04		ug/Kg	84	75 - 123	67 - 131	
1,2-Dibromo-3-Chloropropane	50.0	47.75		ug/Kg	96	54 - 132	41 - 145	
1,2-Dibromoethane	50.0	46.59		ug/Kg	93	80 - 120	73 - 127	
1,2-Dichlorobenzene	50.0	44.37		ug/Kg	89	80 - 120	73 - 127	
1,2-Dichloroethane	50.0	41.82		ug/Kg	84	79 - 121	72 - 128	

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-74963/5
Matrix: Solid

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,2-Dichloropropane	50.0	44.27		ug/Kg	89	77 - 123	69 - 131	
1,3,5-Trimethylbenzene	50.0	41.95		ug/Kg	84	80 - 123	73 - 130	
1,3-Dichlorobenzene	50.0	42.74		ug/Kg	85	80 - 120	73 - 127	
1,3-Dichloropropane	50.0	44.06		ug/Kg	88	80 - 120	73 - 127	
1,4-Dichlorobenzene	50.0	42.02		ug/Kg	84	80 - 120	73 - 127	
2,2-Dichloropropane	50.0	45.60		ug/Kg	91	58 - 142	44 - 156	
2-Butanone	50.0	44.09		ug/Kg	88	56 - 176	36 - 196	
2-Chlorotoluene	50.0	41.36		ug/Kg	83	56 - 176	36 - 196	
2-Hexanone	50.0	45.60		ug/Kg	91	67 - 151	53 - 165	
4-Chlorotoluene	50.0	42.12		ug/Kg	84	67 - 151	53 - 165	
4-Methyl-2-pentanone	50.0	48.07		ug/Kg	96	72 - 126	63 - 135	
Acetone	50.0	46.77	J	ug/Kg	94	30 - 150	10 - 170	
Benzene	50.0	41.32		ug/Kg	83	79 - 120	72 - 127	
Bromobenzene	50.0	43.34		ug/Kg	87	80 - 120	73 - 127	
Bromochloromethane	50.0	44.94		ug/Kg	90	80 - 120	73 - 127	
Bromodichloromethane	50.0	47.38		ug/Kg	95	73 - 127	64 - 136	
Bromoform	50.0	51.03		ug/Kg	102	55 - 133	42 - 146	
Bromomethane	50.0	36.85		ug/Kg	74	36 - 144	18 - 162	
cis-1,2-Dichloroethene	50.0	43.86		ug/Kg	88	80 - 123	73 - 130	
cis-1,3-Dichloropropene	50.0	47.43		ug/Kg	95	74 - 128	65 - 137	
Carbon disulfide	50.0	39.27		ug/Kg	79	53 - 125	41 - 137	
Carbon tetrachloride	50.0	44.15		ug/Kg	88	58 - 142	44 - 156	
Chlorobenzene	50.0	41.82		ug/Kg	84	80 - 120	73 - 127	
Chloroethane	50.0	44.30		ug/Kg	89	60 - 120	50 - 130	
Chloroform	50.0	41.38		ug/Kg	83	80 - 120	73 - 127	
Chloromethane	50.0	37.41		ug/Kg	75	50 - 122	38 - 134	
Dibromochloromethane	50.0	48.29		ug/Kg	97	50 - 122	38 - 134	
Dibromomethane	50.0	45.69		ug/Kg	91	70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	39.05		ug/Kg	78	32 - 158	11 - 179	
Di-isopropyl ether (DIPE)	50.0	41.85		ug/Kg	84	65 - 131	54 - 142	
Ethanol	500	406.6	J	ug/Kg	81	32 - 158	11 - 179	
Ethylbenzene	50.0	40.93		ug/Kg	82	57 - 153	41 - 169	
Ethyl-t-butyl ether (ETBE)	50.0	41.22		ug/Kg	82	58 - 136	45 - 149	
Isopropylbenzene	50.0	41.65		ug/Kg	83	80 - 129	72 - 137	
Methylene Chloride	50.0	43.29		ug/Kg	87	72 - 120	64 - 128	
Methyl-t-Butyl Ether (MTBE)	50.0	40.52		ug/Kg	81	64 - 124	54 - 134	
Naphthalene	50.0	46.99		ug/Kg	94	64 - 124	54 - 134	
n-Butylbenzene	50.0	42.40		ug/Kg	85	78 - 126	70 - 134	
N-Propylbenzene	50.0	41.59		ug/Kg	83	80 - 122	73 - 129	
o-Xylene	50.0	41.88		ug/Kg	84	79 - 127	71 - 135	
m,p-Xylene	100	82.34		ug/Kg	82	80 - 122	73 - 129	
p-Isopropyltoluene	50.0	41.60		ug/Kg	83	80 - 122	73 - 129	
sec-Butylbenzene	50.0	41.85		ug/Kg	84	79 - 127	71 - 135	
Styrene	50.0	43.07		ug/Kg	86	80 - 123	73 - 130	
trans-1,2-Dichloroethene	50.0	40.39		ug/Kg	81	80 - 120	73 - 127	
trans-1,3-Dichloropropene	50.0	47.70		ug/Kg	95	66 - 120	57 - 129	
Tert-amyl-methyl ether (TAME)	50.0	47.05		ug/Kg	94	63 - 129	52 - 140	
tert-Butyl alcohol (TBA)	250	231.6		ug/Kg	93	79 - 121	72 - 128	
tert-Butylbenzene	50.0	41.62		ug/Kg	83	80 - 128	72 - 136	
Tetrachloroethene	50.0	40.93		ug/Kg	82	75 - 123	67 - 131	

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-74963/5
Matrix: Solid

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Toluene	50.0	41.65		ug/Kg	83	80 - 120	73 - 127	
Trichloroethene	50.0	42.02		ug/Kg	84	80 - 120	73 - 127	
Trichlorofluoromethane	50.0	46.38		ug/Kg	93	70 - 136	59 - 147	
Vinyl acetate	50.0	47.98		ug/Kg	96	51 - 159	N/A	
Vinyl chloride	50.0	41.51		ug/Kg	83	68 - 120	59 - 129	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
71	4	2

ME = Marginal Exceedance

GC/MS VOA

Prep Batch: 74899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	5035	
570-30685-2	S-2	Total/NA	Solid	5035	
570-30685-3	S-3	Total/NA	Solid	5035	
570-30685-4	S-4	Total/NA	Solid	5035	

Analysis Batch: 74963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	8260B	74899
570-30685-2	S-2	Total/NA	Solid	8260B	74899
570-30685-3	S-3	Total/NA	Solid	8260B	74899
570-30685-4	S-4	Total/NA	Solid	8260B	74899
MB 570-74963/7	Method Blank	Total/NA	Solid	8260B	
LCS 570-74963/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 570-74963/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 75006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	3545	
570-30685-2	S-2	Total/NA	Solid	3545	
570-30685-3	S-3	Total/NA	Solid	3545	
570-30685-4	S-4	Total/NA	Solid	3545	
LCS 570-75006/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-75006/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-30685-1 MS	S-1	Total/NA	Solid	3545	
570-30685-1 MSD	S-1	Total/NA	Solid	3545	

Analysis Batch: 75430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	8270C SIM	75006
570-30685-2	S-2	Total/NA	Solid	8270C SIM	75006
570-30685-3	S-3	Total/NA	Solid	8270C SIM	75006
570-30685-4	S-4	Total/NA	Solid	8270C SIM	75006
LCS 570-75006/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	75006
LCSD 570-75006/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	75006
570-30685-1 MS	S-1	Total/NA	Solid	8270C SIM	75006
570-30685-1 MSD	S-1	Total/NA	Solid	8270C SIM	75006

GC VOA

Prep Batch: 74899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	5035	
570-30685-2	S-2	Total/NA	Solid	5035	
570-30685-3	S-3	Total/NA	Solid	5035	
570-30685-4	S-4	Total/NA	Solid	5035	

Analysis Batch: 74988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	8015B	74899
570-30685-2	S-2	Total/NA	Solid	8015B	74899

GC VOA (Continued)

Analysis Batch: 74988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-3	S-3	Total/NA	Solid	8015B	74899
570-30685-4	S-4	Total/NA	Solid	8015B	74899
MB 570-74988/6	Method Blank	Total/NA	Solid	8015B	
LCS 570-74988/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 570-74988/4	Lab Control Sample Dup	Total/NA	Solid	8015B	

GC Semi VOA

Analysis Batch: 74716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	8015B	74876
570-30685-2	S-2	Total/NA	Solid	8015B	74876
570-30685-3	S-3	Total/NA	Solid	8015B	74876
570-30685-4	S-4	Total/NA	Solid	8015B	74876
MB 570-74876/1-A	Method Blank	Total/NA	Solid	8015B	74876
LCS 570-74876/2-A	Lab Control Sample	Total/NA	Solid	8015B	74876
LCSD 570-74876/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	74876
570-30620-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B	74876
570-30620-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	74876

Prep Batch: 74876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	3550C	
570-30685-2	S-2	Total/NA	Solid	3550C	
570-30685-3	S-3	Total/NA	Solid	3550C	
570-30685-4	S-4	Total/NA	Solid	3550C	
MB 570-74876/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-74876/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-74876/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-30620-A-1-G MS	Matrix Spike	Total/NA	Solid	3550C	
570-30620-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 74992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	8082	75005
570-30685-2	S-2	Total/NA	Solid	8082	75005
570-30685-3	S-3	Total/NA	Solid	8082	75005
570-30685-4	S-4	Total/NA	Solid	8082	75005
MB 570-75005/1-A	Method Blank	Total/NA	Solid	8082	75005
LCS 570-75005/2-A	Lab Control Sample	Total/NA	Solid	8082	75005
LCSD 570-75005/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	75005
570-30685-2 MS	S-2	Total/NA	Solid	8082	75005
570-30685-2 MSD	S-2	Total/NA	Solid	8082	75005

Prep Batch: 75005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	3545	
570-30685-2	S-2	Total/NA	Solid	3545	
570-30685-3	S-3	Total/NA	Solid	3545	
570-30685-4	S-4	Total/NA	Solid	3545	
MB 570-75005/1-A	Method Blank	Total/NA	Solid	3545	

GC Semi VOA (Continued)

Prep Batch: 75005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-75005/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-75005/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-30685-2 MS	S-2	Total/NA	Solid	3545	
570-30685-2 MSD	S-2	Total/NA	Solid	3545	

Metals

Prep Batch: 75110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	3050B	
570-30685-2	S-2	Total/NA	Solid	3050B	
570-30685-3	S-3	Total/NA	Solid	3050B	
570-30685-4	S-4	Total/NA	Solid	3050B	
MB 570-75110/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-75110/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-75110/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-30685-1 MS	S-1	Total/NA	Solid	3050B	
570-30685-1 MSD	S-1	Total/NA	Solid	3050B	

Prep Batch: 75114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	7471A	
570-30685-2	S-2	Total/NA	Solid	7471A	
570-30685-3	S-3	Total/NA	Solid	7471A	
570-30685-4	S-4	Total/NA	Solid	7471A	
MB 570-75114/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-75114/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-75114/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-30685-1 MS	S-1	Total/NA	Solid	7471A	
570-30685-1 MSD	S-1	Total/NA	Solid	7471A	

Analysis Batch: 75210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-2	S-2	Total/NA	Solid	6010B	75110
570-30685-3	S-3	Total/NA	Solid	6010B	75110
570-30685-4	S-4	Total/NA	Solid	6010B	75110
MB 570-75110/1-A	Method Blank	Total/NA	Solid	6010B	75110
LCS 570-75110/2-A	Lab Control Sample	Total/NA	Solid	6010B	75110
LCSD 570-75110/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	75110
570-30685-1 MS	S-1	Total/NA	Solid	6010B	75110
570-30685-1 MSD	S-1	Total/NA	Solid	6010B	75110

Analysis Batch: 75456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	6010B	75110

Analysis Batch: 75463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-1	S-1	Total/NA	Solid	7471A	75114
570-30685-2	S-2	Total/NA	Solid	7471A	75114
570-30685-3	S-3	Total/NA	Solid	7471A	75114

Metals (Continued)

Analysis Batch: 75463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30685-4	S-4	Total/NA	Solid	7471A	75114
MB 570-75114/1-A	Method Blank	Total/NA	Solid	7471A	75114
LCS 570-75114/2-A	Lab Control Sample	Total/NA	Solid	7471A	75114
LCSD 570-75114/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	75114
570-30685-1 MS	S-1	Total/NA	Solid	7471A	75114
570-30685-1 MSD	S-1	Total/NA	Solid	7471A	75114

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Client Sample ID: S-1

Date Collected: 06/11/20 13:50
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.061 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	74963	06/12/20 11:42	MGX6	ECL 2
	Instrument ID: GCMSQ									
Total/NA	Prep	3545			10.02 g	2 mL	75006	06/12/20 09:22	F7UI	ECL 1
Total/NA	Analysis	8270C SIM		1			75430	06/15/20 12:49	AJ2Q	ECL 1
	Instrument ID: GCMSAAA									
Total/NA	Prep	5035			4.801 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8015B		1	5 g	5 mL	74988	06/12/20 12:32	HKC	ECL 2
	Instrument ID: GC57									
Total/NA	Prep	3550C			10.31 g	10 mL	74876	06/11/20 19:24	SP7J	ECL 1
Total/NA	Analysis	8015B		1			74716	06/12/20 10:56	I9H5	ECL 1
	Instrument ID: GC48									
Total/NA	Prep	3545			19.93 g	10 mL	75005	06/12/20 09:18	F7UI	ECL 1
Total/NA	Analysis	8082		1			74992	06/13/20 00:41	UHHN	ECL 1
	Instrument ID: GC58									
Total/NA	Prep	3050B			2.03 g	100 mL	75110	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			75456	06/15/20 10:16	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Prep	7471A			.58 g	100 mL	75114	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	7471A		1			75463	06/15/20 13:04	MD3A	ECL 1
	Instrument ID: HG7									

Client Sample ID: S-2

Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.158 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	74963	06/12/20 12:09	MGX6	ECL 2
	Instrument ID: GCMSQ									
Total/NA	Prep	3545			9.96 g	2 mL	75006	06/12/20 09:22	F7UI	ECL 1
Total/NA	Analysis	8270C SIM		1			75430	06/15/20 13:09	AJ2Q	ECL 1
	Instrument ID: GCMSAAA									
Total/NA	Prep	5035			4.538 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8015B		1	5 g	5 mL	74988	06/12/20 12:08	HKC	ECL 2
	Instrument ID: GC57									
Total/NA	Prep	3550C			10.16 g	10 mL	74876	06/11/20 19:24	SP7J	ECL 1
Total/NA	Analysis	8015B		1			74716	06/12/20 11:16	I9H5	ECL 1
	Instrument ID: GC48									
Total/NA	Prep	3545			19.94 g	10 mL	75005	06/12/20 09:18	F7UI	ECL 1
Total/NA	Analysis	8082		1			74992	06/13/20 00:59	UHHN	ECL 1
	Instrument ID: GC58									
Total/NA	Prep	3050B			1.94 g	100 mL	75110	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			75210	06/12/20 21:35	OYW3	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Client Sample ID: S-2

Date Collected: 06/11/20 13:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.61 g	100 mL	75114	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	7471A		1			75463	06/15/20 13:11	MD3A	ECL 1
	Instrument ID: HG7									

Client Sample ID: S-3

Date Collected: 06/11/20 11:08
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.058 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	74963	06/12/20 12:36	MGX6	ECL 2
	Instrument ID: GCMSQ									
Total/NA	Prep	3545			10.02 g	2 mL	75006	06/12/20 09:22	F7UI	ECL 1
Total/NA	Analysis	8270C SIM		1			75430	06/15/20 13:28	AJ2Q	ECL 1
	Instrument ID: GCMSAAA									
Total/NA	Prep	5035			6.334 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8015B		1	5 g	5 mL	74988	06/12/20 11:45	HKC	ECL 2
	Instrument ID: GC57									
Total/NA	Prep	3550C			10.07 g	10 mL	74876	06/11/20 19:24	SP7J	ECL 1
Total/NA	Analysis	8015B		1			74716	06/12/20 11:38	I9H5	ECL 1
	Instrument ID: GC48									
Total/NA	Prep	3545			20.08 g	10 mL	75005	06/12/20 09:18	F7UI	ECL 1
Total/NA	Analysis	8082		1			74992	06/13/20 01:17	UHHN	ECL 1
	Instrument ID: GC58									
Total/NA	Prep	3050B			2.04 g	100 mL	75110	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			75210	06/12/20 21:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Prep	7471A			.57 g	100 mL	75114	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	7471A		1			75463	06/15/20 13:14	MD3A	ECL 1
	Instrument ID: HG7									

Client Sample ID: S-4

Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.952 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	74963	06/12/20 13:02	MGX6	ECL 2
	Instrument ID: GCMSQ									
Total/NA	Prep	3545			9.97 g	2 mL	75006	06/12/20 09:22	F7UI	ECL 1
Total/NA	Analysis	8270C SIM		1			75430	06/15/20 13:48	AJ2Q	ECL 1
	Instrument ID: GCMSAAA									
Total/NA	Prep	5035			3.922 g	5 g	74899	06/11/20 19:57	P4DI	ECL 2
Total/NA	Analysis	8015B		1	5 g	5 mL	74988	06/12/20 11:22	HKC	ECL 2
	Instrument ID: GC57									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Client Sample ID: S-4

Date Collected: 06/11/20 11:30
Date Received: 06/11/20 17:03

Lab Sample ID: 570-30685-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.26 g	10 mL	74876	06/11/20 19:24	SP7J	ECL 1
Total/NA	Analysis	8015B		1			74716	06/12/20 13:02	I9H5	ECL 1
	Instrument ID: GC48									
Total/NA	Prep	3545			19.94 g	10 mL	75005	06/12/20 09:18	F7UI	ECL 1
Total/NA	Analysis	8082		1			74992	06/13/20 01:35	UHHN	ECL 1
	Instrument ID: GC58									
Total/NA	Prep	3050B			2.01 g	100 mL	75110	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			75210	06/12/20 22:03	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Prep	7471A			.60 g	100 mL	75114	06/12/20 14:30	X7RL	ECL 1
Total/NA	Analysis	7471A		1			75463	06/15/20 13:16	MD3A	ECL 1
	Instrument ID: HG7									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8270C SIM	PAHs (GC/MS SIM)	SW846	ECL 1
8015B	Gasoline Range Organics - (GC)	SW846	ECL 2
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3545	Pressurized Fluid Extraction	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2
7471A	Preparation, Mercury	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30685-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-30685-1	S-1	Solid	06/11/20 13:50	06/11/20 17:03	
570-30685-2	S-2	Solid	06/11/20 13:30	06/11/20 17:03	
570-30685-3	S-3	Solid	06/11/20 11:08	06/11/20 17:03	
570-30685-4	S-4	Solid	06/11/20 11:30	06/11/20 17:03	

Loc: 570
30685

570-30685 Chain of Custody

eurofins

Calscience

CHAIN OF CUSTODY RECORD

DATE: 6/11/20

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us

LABORATORY CLIENT: Geosyntec Consultants, Inc.

ADDRESS: 211 E. Ocean Blvd, Suite 300

CITY: Long Beach STATE: CA ZIP: 90802

TEL:

E-MAIL: mtaptich@geosyntec.com; msmall@geosyntec.com

CLIENT PROJECT NAME / NUMBER: PNR0651FW2/2678

P.O. NO: 100016408

PROJECT CONTACT: Stephanie Bone/Molly Small/Stephen Nowak

SAMPLER(S) (PRINT): Eric Garcia

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☒ GRO TPH 8015B	TPH(d) ☒ ORO TPH 8015B	TPH ☐ C6-C36 ☐ C6-C44	TPH 8015B ORO	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035): ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6
1	S-1	6/11/20	1350	S	8	X	X		X	X		X		X					X	X	X	
2	S-2		1330	S	8	X	X		X	X		X		X					X	X	X	
3	S-3		1108	S	8	X	X		X	X		X		X					X	X	X	
4	S-4	↓	1130	S	8	X	X		X	X		X		X					X	X	X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E CI	6-11-2020	17:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

6/15/2020

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-30685-1

Login Number: 30685
List Number: 1
Creator: Liao, Gineyau

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-30828-1
Client Project/Site: PNR0651FW2/267B

For:
Geosyntec Consultants, Inc.
520 Pike Street
Suite 2600
Seattle, Washington 98101

Attn: Molly Taptich

Authorized for release by:
6/16/2020 3:06:50 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 18
QC Sample Results 19
QC Association Summary 33
Lab Chronicle 34
Certification Summary 36
Method Summary 37
Sample Summary 38
Chain of Custody 39
Receipt Checklists 40
Air Canister Dilution 41

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-30828-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-30828-1

Comments
No additional comments.

Receipt
The samples were received on 6/12/2020 3:57 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Air Toxics
Method TO-15: Due to the use of isopropyl alcohol (IPA) as an alternative disinfecting agent for laboratory workspaces during the COVID-19 pandemic, the concentration of IPA in volatile organic analyses cannot be accurately quantitated in the following samples: SS-5 (570-30828-2), SS-4 (570-30828-3), SS-1 (570-30828-4), SS-7 (570-30828-5), SS-2 (570-30828-6) and SS-6 (570-30828-7).

Method TO-15: The continuing calibration verification (CCV) associated with batch 570-75202 recovered above the upper control limit for 1,2,4-Trichlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS-3 (570-30828-1), SS-5 (570-30828-2), SS-4 (570-30828-3), SS-1 (570-30828-4), SS-7 (570-30828-5), SS-2 (570-30828-6), SS-6 (570-30828-7) and (CCV 570-75202/2).

Method TO-15: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 570-75202 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Client Sample ID: SS-3 — Lab Sample ID: 570-30828-1

No Detections.

Client Sample ID: SS-5 — Lab Sample ID: 570-30828-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Isopropanol	260		35		ug/m3	2.864		TO-15	Total/NA
Tetrachloroethene	23		9.7		ug/m3	2.864		TO-15	Total/NA
Acetone - DL	780		21		ug/m3	4.475		TO-15	Total/NA

Client Sample ID: SS-4 — Lab Sample ID: 570-30828-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	760		21		ug/m3	4.325		TO-15	Total/NA
Isopropanol	160		53		ug/m3	4.325		TO-15	Total/NA

Client Sample ID: SS-1 — Lab Sample ID: 570-30828-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	20		3.2		ug/m3	1.18		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	19		14		ug/m3	1.18		TO-15	Total/NA
2-Butanone	14		5.2		ug/m3	1.18		TO-15	Total/NA
Chloroform	5.3		2.9		ug/m3	1.18		TO-15	Total/NA
Dichlorodifluoromethane	3.6		2.9		ug/m3	1.18		TO-15	Total/NA
Isopropanol	88		15		ug/m3	1.18		TO-15	Total/NA
Tetrachloroethene	110		4.0		ug/m3	1.18		TO-15	Total/NA
Acetone - DL	360		12		ug/m3	2.52		TO-15	Total/NA

Client Sample ID: SS-7 — Lab Sample ID: 570-30828-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.1		3.4		ug/m3	1.26		TO-15	Total/NA
2-Butanone	11		5.6		ug/m3	1.26		TO-15	Total/NA
Acetone	59		6.0		ug/m3	1.26		TO-15	Total/NA
Isopropanol	22		15		ug/m3	1.26		TO-15	Total/NA
Tetrachloroethene	32		4.3		ug/m3	1.26		TO-15	Total/NA
Toluene	5.6		2.4		ug/m3	1.26		TO-15	Total/NA

Client Sample ID: SS-2 — Lab Sample ID: 570-30828-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	83		3.4		ug/m3	1.24		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	18		14		ug/m3	1.24		TO-15	Total/NA
2-Butanone	20		5.5		ug/m3	1.24		TO-15	Total/NA
Acetone	250		5.9		ug/m3	1.24		TO-15	Total/NA
Dichlorodifluoromethane	3.2		3.1		ug/m3	1.24		TO-15	Total/NA
Isopropanol	75		15		ug/m3	1.24		TO-15	Total/NA
Tetrachloroethene	240		4.2		ug/m3	1.24		TO-15	Total/NA

Client Sample ID: SS-6 — Lab Sample ID: 570-30828-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
2-Butanone	12		5.3		ug/m3	1.19		TO-15	Total/NA
Acetone	65		5.7		ug/m3	1.19		TO-15	Total/NA
Dichlorodifluoromethane	3.2		2.9		ug/m3	1.19		TO-15	Total/NA
Isopropanol	33		15		ug/m3	1.19		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-6 (Continued)

Lab Sample ID: 570-30828-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.5		4.0		ug/m3	1.19		TO-15	Total/NA
Toluene	2.8		2.2		ug/m3	1.19		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SS-3
Date Collected: 06/11/20 16:15
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.2		ug/m3			06/13/20 17:27	1.17
1,1,2,2-Tetrachloroethane	ND		8.0		ug/m3			06/13/20 17:27	1.17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13		ug/m3			06/13/20 17:27	1.17
1,1,2-Trichloroethane	ND		3.2		ug/m3			06/13/20 17:27	1.17
1,1-Dichloroethane	ND		2.4		ug/m3			06/13/20 17:27	1.17
1,1-Dichloroethene	ND		2.3		ug/m3			06/13/20 17:27	1.17
1,1-Difluoroethane	ND		6.3		ug/m3			06/13/20 17:27	1.17
1,2,4-Trichlorobenzene	ND	*	17		ug/m3			06/13/20 17:27	1.17
1,2,4-Trimethylbenzene	ND		8.6		ug/m3			06/13/20 17:27	1.17
1,2-Dibromo-3-Chloropropane	ND		17		ug/m3			06/13/20 17:27	1.17
1,2-Dibromoethane	ND		4.5		ug/m3			06/13/20 17:27	1.17
1,2-Dichlorobenzene	ND		3.5		ug/m3			06/13/20 17:27	1.17
1,2-Dichloroethane	ND		2.4		ug/m3			06/13/20 17:27	1.17
1,2-Dichloropropane	ND		2.7		ug/m3			06/13/20 17:27	1.17
1,3,5-Trimethylbenzene	ND		2.9		ug/m3			06/13/20 17:27	1.17
1,3-Dichlorobenzene	ND		3.5		ug/m3			06/13/20 17:27	1.17
1,4-Dichlorobenzene	ND		3.5		ug/m3			06/13/20 17:27	1.17
2-Butanone	ND		5.2		ug/m3			06/13/20 17:27	1.17
2-Hexanone	ND		7.2		ug/m3			06/13/20 17:27	1.17
4-Ethyltoluene	ND		2.9		ug/m3			06/13/20 17:27	1.17
4-Methyl-2-pentanone	ND		7.2		ug/m3			06/13/20 17:27	1.17
Acetone	ND		5.6		ug/m3			06/13/20 17:27	1.17
Benzene	ND		1.9		ug/m3			06/13/20 17:27	1.17
Benzyl chloride	ND		9.1		ug/m3			06/13/20 17:27	1.17
Bromodichloromethane	ND		3.9		ug/m3			06/13/20 17:27	1.17
Bromoform	ND		6.0		ug/m3			06/13/20 17:27	1.17
Bromomethane	ND		2.3		ug/m3			06/13/20 17:27	1.17
cis-1,2-Dichloroethene	ND		2.3		ug/m3			06/13/20 17:27	1.17
cis-1,3-Dichloropropene	ND		2.7		ug/m3			06/13/20 17:27	1.17
Carbon disulfide	ND		7.3		ug/m3			06/13/20 17:27	1.17
Carbon tetrachloride	ND		3.7		ug/m3			06/13/20 17:27	1.17
Chlorobenzene	ND		2.7		ug/m3			06/13/20 17:27	1.17
Chloroethane	ND		1.5		ug/m3			06/13/20 17:27	1.17
Chloroform	ND		2.9		ug/m3			06/13/20 17:27	1.17
Chloromethane	ND		1.2		ug/m3			06/13/20 17:27	1.17
Dibromochloromethane	ND		5.0		ug/m3			06/13/20 17:27	1.17
Dichlorodifluoromethane	ND		2.9		ug/m3			06/13/20 17:27	1.17
Dichlorotetrafluoroethane	ND		16		ug/m3			06/13/20 17:27	1.17
Ethylbenzene	ND		2.5		ug/m3			06/13/20 17:27	1.17
Hexachloro-1,3-butadiene	ND		19		ug/m3			06/13/20 17:27	1.17
Isopropanol	ND		14		ug/m3			06/13/20 17:27	1.17
Methylene Chloride	ND		20		ug/m3			06/13/20 17:27	1.17
Methyl-t-Butyl Ether (MTBE)	ND		8.4		ug/m3			06/13/20 17:27	1.17
n-Butylbenzene	ND		9.6		ug/m3			06/13/20 17:27	1.17
o-Xylene	ND		2.5		ug/m3			06/13/20 17:27	1.17
m,p-Xylene	ND		10		ug/m3			06/13/20 17:27	1.17
sec-Butylbenzene	ND		9.6		ug/m3			06/13/20 17:27	1.17
Styrene	ND		7.5		ug/m3			06/13/20 17:27	1.17

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-3
Date Collected: 06/11/20 16:15
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.3		ug/m3			06/13/20 17:27	1.17
trans-1,3-Dichloropropene	ND		5.3		ug/m3			06/13/20 17:27	1.17
tert-Butylbenzene	ND		9.6		ug/m3			06/13/20 17:27	1.17
Tetrachloroethene	ND		4.0		ug/m3			06/13/20 17:27	1.17
Toluene	ND		2.2		ug/m3			06/13/20 17:27	1.17
Trichloroethene	ND		3.1		ug/m3			06/13/20 17:27	1.17
Trichlorofluoromethane	ND		6.6		ug/m3			06/13/20 17:27	1.17
Vinyl acetate	ND		8.2		ug/m3			06/13/20 17:27	1.17
Vinyl chloride	ND		1.5		ug/m3			06/13/20 17:27	1.17

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*06/13/20 17:27*	*1.17*
4-Bromofluorobenzene (Surr)	*93*		*67 - 131*		*06/13/20 17:27*	*1.17*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/13/20 17:27*	*1.17*

Client Sample ID: SS-5
Date Collected: 06/11/20 17:20
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		7.8		ug/m3			06/13/20 18:15	2.864
1,1,2,2-Tetrachloroethane	ND		20		ug/m3			06/13/20 18:15	2.864
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33		ug/m3			06/13/20 18:15	2.864
1,1,2-Trichloroethane	ND		7.8		ug/m3			06/13/20 18:15	2.864
1,1-Dichloroethane	ND		5.8		ug/m3			06/13/20 18:15	2.864
1,1-Dichloroethene	ND		5.7		ug/m3			06/13/20 18:15	2.864
1,1-Difluoroethane	ND		15		ug/m3			06/13/20 18:15	2.864
1,2,4-Trichlorobenzene	ND	*	43		ug/m3			06/13/20 18:15	2.864
1,2,4-Trimethylbenzene	ND		21		ug/m3			06/13/20 18:15	2.864
1,2-Dibromo-3-Chloropropane	ND		42		ug/m3			06/13/20 18:15	2.864
1,2-Dibromoethane	ND		11		ug/m3			06/13/20 18:15	2.864
1,2-Dichlorobenzene	ND		8.6		ug/m3			06/13/20 18:15	2.864
1,2-Dichloroethane	ND		5.8		ug/m3			06/13/20 18:15	2.864
1,2-Dichloropropane	ND		6.6		ug/m3			06/13/20 18:15	2.864
1,3,5-Trimethylbenzene	ND		7.0		ug/m3			06/13/20 18:15	2.864
1,3-Dichlorobenzene	ND		8.6		ug/m3			06/13/20 18:15	2.864
1,4-Dichlorobenzene	ND		8.6		ug/m3			06/13/20 18:15	2.864
2-Butanone	ND		13		ug/m3			06/13/20 18:15	2.864
2-Hexanone	ND		18		ug/m3			06/13/20 18:15	2.864
4-Ethyltoluene	ND		7.0		ug/m3			06/13/20 18:15	2.864
4-Methyl-2-pentanone	ND		18		ug/m3			06/13/20 18:15	2.864
Benzene	ND		4.6		ug/m3			06/13/20 18:15	2.864
Benzyl chloride	ND		22		ug/m3			06/13/20 18:15	2.864
Bromodichloromethane	ND		9.6		ug/m3			06/13/20 18:15	2.864
Bromoform	ND		15		ug/m3			06/13/20 18:15	2.864
Bromomethane	ND		5.6		ug/m3			06/13/20 18:15	2.864
cis-1,2-Dichloroethene	ND		5.7		ug/m3			06/13/20 18:15	2.864
cis-1,3-Dichloropropene	ND		6.5		ug/m3			06/13/20 18:15	2.864
Carbon disulfide	ND		18		ug/m3			06/13/20 18:15	2.864

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-5
Date Collected: 06/11/20 17:20
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		9.0		ug/m3			06/13/20 18:15	2.864
Chlorobenzene	ND		6.6		ug/m3			06/13/20 18:15	2.864
Chloroethane	ND		3.8		ug/m3			06/13/20 18:15	2.864
Chloroform	ND		7.0		ug/m3			06/13/20 18:15	2.864
Chloromethane	ND		3.0		ug/m3			06/13/20 18:15	2.864
Dibromochloromethane	ND		12		ug/m3			06/13/20 18:15	2.864
Dichlorodifluoromethane	ND		7.1		ug/m3			06/13/20 18:15	2.864
Dichlorotetrafluoroethane	ND		40		ug/m3			06/13/20 18:15	2.864
Ethylbenzene	ND		6.2		ug/m3			06/13/20 18:15	2.864
Hexachloro-1,3-butadiene	ND		46		ug/m3			06/13/20 18:15	2.864
Isopropanol	**260**		35		ug/m3			06/13/20 18:15	2.864
Methylene Chloride	ND		50		ug/m3			06/13/20 18:15	2.864
Methyl-t-Butyl Ether (MTBE)	ND		21		ug/m3			06/13/20 18:15	2.864
n-Butylbenzene	ND		24		ug/m3			06/13/20 18:15	2.864
o-Xylene	ND		6.2		ug/m3			06/13/20 18:15	2.864
m,p-Xylene	ND		25		ug/m3			06/13/20 18:15	2.864
sec-Butylbenzene	ND		24		ug/m3			06/13/20 18:15	2.864
Styrene	ND		18		ug/m3			06/13/20 18:15	2.864
trans-1,2-Dichloroethene	ND		5.7		ug/m3			06/13/20 18:15	2.864
trans-1,3-Dichloropropene	ND		13		ug/m3			06/13/20 18:15	2.864
tert-Butylbenzene	ND		24		ug/m3			06/13/20 18:15	2.864
Tetrachloroethene	**23**		9.7		ug/m3			06/13/20 18:15	2.864
Toluene	ND		5.4		ug/m3			06/13/20 18:15	2.864
Trichloroethene	ND		7.7		ug/m3			06/13/20 18:15	2.864
Trichlorofluoromethane	ND		16		ug/m3			06/13/20 18:15	2.864
Vinyl acetate	ND		20		ug/m3			06/13/20 18:15	2.864
Vinyl chloride	ND		3.7		ug/m3			06/13/20 18:15	2.864

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*06/13/20 18:15*	*2.864*
4-Bromofluorobenzene (Surr)	*95*		*67 - 131*		*06/13/20 18:15*	*2.864*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/13/20 18:15*	*2.864*

Client Sample ID: SS-4
Date Collected: 06/11/20 18:05
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-3
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		12		ug/m3			06/13/20 19:05	4.325
1,1,2,2-Tetrachloroethane	ND		30		ug/m3			06/13/20 19:05	4.325
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/m3			06/13/20 19:05	4.325
1,1,2-Trichloroethane	ND		12		ug/m3			06/13/20 19:05	4.325
1,1-Dichloroethane	ND		8.8		ug/m3			06/13/20 19:05	4.325
1,1-Dichloroethene	ND		8.6		ug/m3			06/13/20 19:05	4.325
1,1-Difluoroethane	ND		23		ug/m3			06/13/20 19:05	4.325
1,2,4-Trichlorobenzene	ND	*	64		ug/m3			06/13/20 19:05	4.325
1,2,4-Trimethylbenzene	ND		32		ug/m3			06/13/20 19:05	4.325
1,2-Dibromo-3-Chloropropane	ND		63		ug/m3			06/13/20 19:05	4.325
1,2-Dibromoethane	ND		17		ug/m3			06/13/20 19:05	4.325

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-4
Date Collected: 06/11/20 18:05
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-3
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		13		ug/m3			06/13/20 19:05	4.325
1,2-Dichloroethane	ND		8.8		ug/m3			06/13/20 19:05	4.325
1,2-Dichloropropane	ND		10		ug/m3			06/13/20 19:05	4.325
1,3,5-Trimethylbenzene	ND		11		ug/m3			06/13/20 19:05	4.325
1,3-Dichlorobenzene	ND		13		ug/m3			06/13/20 19:05	4.325
1,4-Dichlorobenzene	ND		13		ug/m3			06/13/20 19:05	4.325
2-Butanone	ND		19		ug/m3			06/13/20 19:05	4.325
2-Hexanone	ND		27		ug/m3			06/13/20 19:05	4.325
4-Ethyltoluene	ND		11		ug/m3			06/13/20 19:05	4.325
4-Methyl-2-pentanone	ND		27		ug/m3			06/13/20 19:05	4.325
Acetone	**760**		21		ug/m3			06/13/20 19:05	4.325
Benzene	ND		6.9		ug/m3			06/13/20 19:05	4.325
Benzyl chloride	ND		34		ug/m3			06/13/20 19:05	4.325
Bromodichloromethane	ND		14		ug/m3			06/13/20 19:05	4.325
Bromoform	ND		22		ug/m3			06/13/20 19:05	4.325
Bromomethane	ND		8.4		ug/m3			06/13/20 19:05	4.325
cis-1,2-Dichloroethene	ND		8.6		ug/m3			06/13/20 19:05	4.325
cis-1,3-Dichloropropene	ND		9.8		ug/m3			06/13/20 19:05	4.325
Carbon disulfide	ND		27		ug/m3			06/13/20 19:05	4.325
Carbon tetrachloride	ND		14		ug/m3			06/13/20 19:05	4.325
Chlorobenzene	ND		10		ug/m3			06/13/20 19:05	4.325
Chloroethane	ND		5.7		ug/m3			06/13/20 19:05	4.325
Chloroform	ND		11		ug/m3			06/13/20 19:05	4.325
Chloromethane	ND		4.5		ug/m3			06/13/20 19:05	4.325
Dibromochloromethane	ND		18		ug/m3			06/13/20 19:05	4.325
Dichlorodifluoromethane	ND		11		ug/m3			06/13/20 19:05	4.325
Dichlorotetrafluoroethane	ND		60		ug/m3			06/13/20 19:05	4.325
Ethylbenzene	ND		9.4		ug/m3			06/13/20 19:05	4.325
Hexachloro-1,3-butadiene	ND		69		ug/m3			06/13/20 19:05	4.325
Isopropanol	**160**		53		ug/m3			06/13/20 19:05	4.325
Methylene Chloride	ND		75		ug/m3			06/13/20 19:05	4.325
Methyl-t-Butyl Ether (MTBE)	ND		31		ug/m3			06/13/20 19:05	4.325
n-Butylbenzene	ND		36		ug/m3			06/13/20 19:05	4.325
o-Xylene	ND		9.4		ug/m3			06/13/20 19:05	4.325
m,p-Xylene	ND		38		ug/m3			06/13/20 19:05	4.325
sec-Butylbenzene	ND		36		ug/m3			06/13/20 19:05	4.325
Styrene	ND		28		ug/m3			06/13/20 19:05	4.325
trans-1,2-Dichloroethene	ND		8.6		ug/m3			06/13/20 19:05	4.325
trans-1,3-Dichloropropene	ND		20		ug/m3			06/13/20 19:05	4.325
tert-Butylbenzene	ND		36		ug/m3			06/13/20 19:05	4.325
Tetrachloroethene	ND		15		ug/m3			06/13/20 19:05	4.325
Toluene	ND		8.1		ug/m3			06/13/20 19:05	4.325
Trichloroethene	ND		12		ug/m3			06/13/20 19:05	4.325
Trichlorofluoromethane	ND		24		ug/m3			06/13/20 19:05	4.325
Vinyl acetate	ND		30		ug/m3			06/13/20 19:05	4.325
Vinyl chloride	ND		5.5		ug/m3			06/13/20 19:05	4.325

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*06/13/20 19:05*	*4.325*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-4
Date Collected: 06/11/20 18:05
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-3
Matrix: Air

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*67 - 131*		*06/13/20 19:05*	*4.325*
Toluene-d8 (Surr)	*97*		*70 - 130*		*06/13/20 19:05*	*4.325*

Client Sample ID: SS-1
Date Collected: 06/12/20 08:47
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-4
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**20**		3.2	ug/m3			06/13/20 19:56	1.18
1,1,2,2-Tetrachloroethane	ND		8.1	ug/m3			06/13/20 19:56	1.18
1,1,2-Trichloro-1,2,2-trifluoroethane	**19**		14	ug/m3			06/13/20 19:56	1.18
1,1,2-Trichloroethane	ND		3.2	ug/m3			06/13/20 19:56	1.18
1,1-Dichloroethane	ND		2.4	ug/m3			06/13/20 19:56	1.18
1,1-Dichloroethene	ND		2.3	ug/m3			06/13/20 19:56	1.18
1,1-Difluoroethane	ND		6.4	ug/m3			06/13/20 19:56	1.18
1,2,4-Trichlorobenzene	ND	*	18	ug/m3			06/13/20 19:56	1.18
1,2,4-Trimethylbenzene	ND		8.7	ug/m3			06/13/20 19:56	1.18
1,2-Dibromo-3-Chloropropane	ND		17	ug/m3			06/13/20 19:56	1.18
1,2-Dibromoethane	ND		4.5	ug/m3			06/13/20 19:56	1.18
1,2-Dichlorobenzene	ND		3.5	ug/m3			06/13/20 19:56	1.18
1,2-Dichloroethane	ND		2.4	ug/m3			06/13/20 19:56	1.18
1,2-Dichloropropane	ND		2.7	ug/m3			06/13/20 19:56	1.18
1,3,5-Trimethylbenzene	ND		2.9	ug/m3			06/13/20 19:56	1.18
1,3-Dichlorobenzene	ND		3.5	ug/m3			06/13/20 19:56	1.18
1,4-Dichlorobenzene	ND		3.5	ug/m3			06/13/20 19:56	1.18
2-Butanone	**14**		5.2	ug/m3			06/13/20 19:56	1.18
2-Hexanone	ND		7.3	ug/m3			06/13/20 19:56	1.18
4-Ethyltoluene	ND		2.9	ug/m3			06/13/20 19:56	1.18
4-Methyl-2-pentanone	ND		7.3	ug/m3			06/13/20 19:56	1.18
Benzene	ND		1.9	ug/m3			06/13/20 19:56	1.18
Benzyl chloride	ND		9.2	ug/m3			06/13/20 19:56	1.18
Bromodichloromethane	ND		4.0	ug/m3			06/13/20 19:56	1.18
Bromoform	ND		6.1	ug/m3			06/13/20 19:56	1.18
Bromomethane	ND		2.3	ug/m3			06/13/20 19:56	1.18
cis-1,2-Dichloroethene	ND		2.3	ug/m3			06/13/20 19:56	1.18
cis-1,3-Dichloropropene	ND		2.7	ug/m3			06/13/20 19:56	1.18
Carbon disulfide	ND		7.3	ug/m3			06/13/20 19:56	1.18
Carbon tetrachloride	ND		3.7	ug/m3			06/13/20 19:56	1.18
Chlorobenzene	ND		2.7	ug/m3			06/13/20 19:56	1.18
Chloroethane	ND		1.6	ug/m3			06/13/20 19:56	1.18
Chloroform	**5.3**		2.9	ug/m3			06/13/20 19:56	1.18
Chloromethane	ND		1.2	ug/m3			06/13/20 19:56	1.18
Dibromochloromethane	ND		5.0	ug/m3			06/13/20 19:56	1.18
Dichlorodifluoromethane	**3.6**		2.9	ug/m3			06/13/20 19:56	1.18
Dichlorotetrafluoroethane	ND		16	ug/m3			06/13/20 19:56	1.18
Ethylbenzene	ND		2.6	ug/m3			06/13/20 19:56	1.18
Hexachloro-1,3-butadiene	ND		19	ug/m3			06/13/20 19:56	1.18

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-1
Date Collected: 06/12/20 08:47
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-4
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropanol	**88**		15	ug/m3			06/13/20 19:56	1.18
Methylene Chloride	ND		20	ug/m3			06/13/20 19:56	1.18
Methyl-t-Butyl Ether (MTBE)	ND		8.5	ug/m3			06/13/20 19:56	1.18
n-Butylbenzene	ND		9.7	ug/m3			06/13/20 19:56	1.18
o-Xylene	ND		2.6	ug/m3			06/13/20 19:56	1.18
m,p-Xylene	ND		10	ug/m3			06/13/20 19:56	1.18
sec-Butylbenzene	ND		9.7	ug/m3			06/13/20 19:56	1.18
Styrene	ND		7.5	ug/m3			06/13/20 19:56	1.18
trans-1,2-Dichloroethene	ND		2.3	ug/m3			06/13/20 19:56	1.18
trans-1,3-Dichloropropene	ND		5.4	ug/m3			06/13/20 19:56	1.18
tert-Butylbenzene	ND		9.7	ug/m3			06/13/20 19:56	1.18
Tetrachloroethene	**110**		4.0	ug/m3			06/13/20 19:56	1.18
Toluene	ND		2.2	ug/m3			06/13/20 19:56	1.18
Trichloroethene	ND		3.2	ug/m3			06/13/20 19:56	1.18
Trichlorofluoromethane	ND		6.6	ug/m3			06/13/20 19:56	1.18
Vinyl acetate	ND		8.3	ug/m3			06/13/20 19:56	1.18
Vinyl chloride	ND		1.5	ug/m3			06/13/20 19:56	1.18

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*06/13/20 19:56*	*1.18*
4-Bromofluorobenzene (Surr)	*103*		*67 - 131*		*06/13/20 19:56*	*1.18*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/13/20 19:56*	*1.18*

Client Sample ID: SS-7
Date Collected: 06/12/20 09:36
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-5
Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.1**		3.4	ug/m3			06/13/20 20:47	1.26
1,1,2,2-Tetrachloroethane	ND		8.6	ug/m3			06/13/20 20:47	1.26
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14	ug/m3			06/13/20 20:47	1.26
1,1,2-Trichloroethane	ND		3.4	ug/m3			06/13/20 20:47	1.26
1,1-Dichloroethane	ND		2.5	ug/m3			06/13/20 20:47	1.26
1,1-Dichloroethene	ND		2.5	ug/m3			06/13/20 20:47	1.26
1,1-Difluoroethane	ND		6.8	ug/m3			06/13/20 20:47	1.26
1,2,4-Trichlorobenzene	ND	*	19	ug/m3			06/13/20 20:47	1.26
1,2,4-Trimethylbenzene	ND		9.3	ug/m3			06/13/20 20:47	1.26
1,2-Dibromo-3-Chloropropane	ND		18	ug/m3			06/13/20 20:47	1.26
1,2-Dibromoethane	ND		4.8	ug/m3			06/13/20 20:47	1.26
1,2-Dichlorobenzene	ND		3.8	ug/m3			06/13/20 20:47	1.26
1,2-Dichloroethane	ND		2.5	ug/m3			06/13/20 20:47	1.26
1,2-Dichloropropane	ND		2.9	ug/m3			06/13/20 20:47	1.26
1,3,5-Trimethylbenzene	ND		3.1	ug/m3			06/13/20 20:47	1.26
1,3-Dichlorobenzene	ND		3.8	ug/m3			06/13/20 20:47	1.26
1,4-Dichlorobenzene	ND		3.8	ug/m3			06/13/20 20:47	1.26
2-Butanone	**11**		5.6	ug/m3			06/13/20 20:47	1.26
2-Hexanone	ND		7.7	ug/m3			06/13/20 20:47	1.26
4-Ethyltoluene	ND		3.1	ug/m3			06/13/20 20:47	1.26
4-Methyl-2-pentanone	ND		7.7	ug/m3			06/13/20 20:47	1.26

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-7 — **Lab Sample ID: 570-30828-5**
Date Collected: 06/12/20 09:36 — **Matrix: Air**
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**59**		6.0		ug/m3			06/13/20 20:47	1.26
Benzene	ND		2.0		ug/m3			06/13/20 20:47	1.26
Benzyl chloride	ND		9.8		ug/m3			06/13/20 20:47	1.26
Bromodichloromethane	ND		4.2		ug/m3			06/13/20 20:47	1.26
Bromoform	ND		6.5		ug/m3			06/13/20 20:47	1.26
Bromomethane	ND		2.4		ug/m3			06/13/20 20:47	1.26
cis-1,2-Dichloroethene	ND		2.5		ug/m3			06/13/20 20:47	1.26
cis-1,3-Dichloropropene	ND		2.9		ug/m3			06/13/20 20:47	1.26
Carbon disulfide	ND		7.8		ug/m3			06/13/20 20:47	1.26
Carbon tetrachloride	ND		4.0		ug/m3			06/13/20 20:47	1.26
Chlorobenzene	ND		2.9		ug/m3			06/13/20 20:47	1.26
Chloroethane	ND		1.7		ug/m3			06/13/20 20:47	1.26
Chloroform	ND		3.1		ug/m3			06/13/20 20:47	1.26
Chloromethane	ND		1.3		ug/m3			06/13/20 20:47	1.26
Dibromochloromethane	ND		5.4		ug/m3			06/13/20 20:47	1.26
Dichlorodifluoromethane	ND		3.1		ug/m3			06/13/20 20:47	1.26
Dichlorotetrafluoroethane	ND		18		ug/m3			06/13/20 20:47	1.26
Ethylbenzene	ND		2.7		ug/m3			06/13/20 20:47	1.26
Hexachloro-1,3-butadiene	ND		20		ug/m3			06/13/20 20:47	1.26
Isopropanol	**22**		15		ug/m3			06/13/20 20:47	1.26
Methylene Chloride	ND		22		ug/m3			06/13/20 20:47	1.26
Methyl-t-Butyl Ether (MTBE)	ND		9.1		ug/m3			06/13/20 20:47	1.26
n-Butylbenzene	ND		10		ug/m3			06/13/20 20:47	1.26
o-Xylene	ND		2.7		ug/m3			06/13/20 20:47	1.26
m,p-Xylene	ND		11		ug/m3			06/13/20 20:47	1.26
sec-Butylbenzene	ND		10		ug/m3			06/13/20 20:47	1.26
Styrene	ND		8.1		ug/m3			06/13/20 20:47	1.26
trans-1,2-Dichloroethene	ND		2.5		ug/m3			06/13/20 20:47	1.26
trans-1,3-Dichloropropene	ND		5.7		ug/m3			06/13/20 20:47	1.26
tert-Butylbenzene	ND		10		ug/m3			06/13/20 20:47	1.26
Tetrachloroethene	**32**		4.3		ug/m3			06/13/20 20:47	1.26
Toluene	**5.6**		2.4		ug/m3			06/13/20 20:47	1.26
Trichloroethene	ND		3.4		ug/m3			06/13/20 20:47	1.26
Trichlorofluoromethane	ND		7.1		ug/m3			06/13/20 20:47	1.26
Vinyl acetate	ND		8.9		ug/m3			06/13/20 20:47	1.26
Vinyl chloride	ND		1.6		ug/m3			06/13/20 20:47	1.26

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*06/13/20 20:47*	*1.26*
4-Bromofluorobenzene (Surr)	*95*		*67 - 131*		*06/13/20 20:47*	*1.26*
Toluene-d8 (Surr)	*90*		*70 - 130*		*06/13/20 20:47*	*1.26*

Client Sample ID: SS-2 — **Lab Sample ID: 570-30828-6**
Date Collected: 06/12/20 10:46 — **Matrix: Air**
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**83**		3.4		ug/m3			06/13/20 21:41	1.24
1,1,2,2-Tetrachloroethane	ND		8.5		ug/m3			06/13/20 21:41	1.24

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-2
Date Collected: 06/12/20 10:46
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	**18**		14		ug/m3			06/13/20 21:41	1.24
1,1,2-Trichloroethane	ND		3.4		ug/m3			06/13/20 21:41	1.24
1,1-Dichloroethane	ND		2.5		ug/m3			06/13/20 21:41	1.24
1,1-Dichloroethene	ND		2.5		ug/m3			06/13/20 21:41	1.24
1,1-Difluoroethane	ND		6.7		ug/m3			06/13/20 21:41	1.24
1,2,4-Trichlorobenzene	ND	*	18		ug/m3			06/13/20 21:41	1.24
1,2,4-Trimethylbenzene	ND		9.1		ug/m3			06/13/20 21:41	1.24
1,2-Dibromo-3-Chloropropane	ND		18		ug/m3			06/13/20 21:41	1.24
1,2-Dibromoethane	ND		4.8		ug/m3			06/13/20 21:41	1.24
1,2-Dichlorobenzene	ND		3.7		ug/m3			06/13/20 21:41	1.24
1,2-Dichloroethane	ND		2.5		ug/m3			06/13/20 21:41	1.24
1,2-Dichloropropane	ND		2.9		ug/m3			06/13/20 21:41	1.24
1,3,5-Trimethylbenzene	ND		3.0		ug/m3			06/13/20 21:41	1.24
1,3-Dichlorobenzene	ND		3.7		ug/m3			06/13/20 21:41	1.24
1,4-Dichlorobenzene	ND		3.7		ug/m3			06/13/20 21:41	1.24
2-Butanone	**20**		5.5		ug/m3			06/13/20 21:41	1.24
2-Hexanone	ND		7.6		ug/m3			06/13/20 21:41	1.24
4-Ethyltoluene	ND		3.0		ug/m3			06/13/20 21:41	1.24
4-Methyl-2-pentanone	ND		7.6		ug/m3			06/13/20 21:41	1.24
Acetone	**250**		5.9		ug/m3			06/13/20 21:41	1.24
Benzene	ND		2.0		ug/m3			06/13/20 21:41	1.24
Benzyl chloride	ND		9.6		ug/m3			06/13/20 21:41	1.24
Bromodichloromethane	ND		4.2		ug/m3			06/13/20 21:41	1.24
Bromoform	ND		6.4		ug/m3			06/13/20 21:41	1.24
Bromomethane	ND		2.4		ug/m3			06/13/20 21:41	1.24
cis-1,2-Dichloroethene	ND		2.5		ug/m3			06/13/20 21:41	1.24
cis-1,3-Dichloropropene	ND		2.8		ug/m3			06/13/20 21:41	1.24
Carbon disulfide	ND		7.7		ug/m3			06/13/20 21:41	1.24
Carbon tetrachloride	ND		3.9		ug/m3			06/13/20 21:41	1.24
Chlorobenzene	ND		2.9		ug/m3			06/13/20 21:41	1.24
Chloroethane	ND		1.6		ug/m3			06/13/20 21:41	1.24
Chloroform	ND		3.0		ug/m3			06/13/20 21:41	1.24
Chloromethane	ND		1.3		ug/m3			06/13/20 21:41	1.24
Dibromochloromethane	ND		5.3		ug/m3			06/13/20 21:41	1.24
Dichlorodifluoromethane	**3.2**		3.1		ug/m3			06/13/20 21:41	1.24
Dichlorotetrafluoroethane	ND		17		ug/m3			06/13/20 21:41	1.24
Ethylbenzene	ND		2.7		ug/m3			06/13/20 21:41	1.24
Hexachloro-1,3-butadiene	ND		20		ug/m3			06/13/20 21:41	1.24
Isopropanol	**75**		15		ug/m3			06/13/20 21:41	1.24
Methylene Chloride	ND		22		ug/m3			06/13/20 21:41	1.24
Methyl-t-Butyl Ether (MTBE)	ND		8.9		ug/m3			06/13/20 21:41	1.24
n-Butylbenzene	ND		10		ug/m3			06/13/20 21:41	1.24
o-Xylene	ND		2.7		ug/m3			06/13/20 21:41	1.24
m,p-Xylene	ND		11		ug/m3			06/13/20 21:41	1.24
sec-Butylbenzene	ND		10		ug/m3			06/13/20 21:41	1.24
Styrene	ND		7.9		ug/m3			06/13/20 21:41	1.24
trans-1,2-Dichloroethene	ND		2.5		ug/m3			06/13/20 21:41	1.24
trans-1,3-Dichloropropene	ND		5.6		ug/m3			06/13/20 21:41	1.24

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-2
Date Collected: 06/12/20 10:46
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		10		ug/m3			06/13/20 21:41	1.24
Tetrachloroethene	**240**		4.2		ug/m3			06/13/20 21:41	1.24
Toluene	ND		2.3		ug/m3			06/13/20 21:41	1.24
Trichloroethene	ND		3.3		ug/m3			06/13/20 21:41	1.24
Trichlorofluoromethane	ND		7.0		ug/m3			06/13/20 21:41	1.24
Vinyl acetate	ND		8.7		ug/m3			06/13/20 21:41	1.24
Vinyl chloride	ND		1.6		ug/m3			06/13/20 21:41	1.24

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*06/13/20 21:41*	*1.24*
4-Bromofluorobenzene (Surr)	*102*		*67 - 131*		*06/13/20 21:41*	*1.24*
Toluene-d8 (Surr)	*91*		*70 - 130*		*06/13/20 21:41*	*1.24*

Client Sample ID: SS-6
Date Collected: 06/12/20 12:01
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.2		ug/m3			06/13/20 22:30	1.19
1,1,2,2-Tetrachloroethane	ND		8.2		ug/m3			06/13/20 22:30	1.19
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14		ug/m3			06/13/20 22:30	1.19
1,1,2-Trichloroethane	ND		3.2		ug/m3			06/13/20 22:30	1.19
1,1-Dichloroethane	ND		2.4		ug/m3			06/13/20 22:30	1.19
1,1-Dichloroethene	ND		2.4		ug/m3			06/13/20 22:30	1.19
1,1-Difluoroethane	ND		6.4		ug/m3			06/13/20 22:30	1.19
1,2,4-Trichlorobenzene	ND	*	18		ug/m3			06/13/20 22:30	1.19
1,2,4-Trimethylbenzene	ND		8.8		ug/m3			06/13/20 22:30	1.19
1,2-Dibromo-3-Chloropropane	ND		17		ug/m3			06/13/20 22:30	1.19
1,2-Dibromoethane	ND		4.6		ug/m3			06/13/20 22:30	1.19
1,2-Dichlorobenzene	ND		3.6		ug/m3			06/13/20 22:30	1.19
1,2-Dichloroethane	ND		2.4		ug/m3			06/13/20 22:30	1.19
1,2-Dichloropropane	ND		2.7		ug/m3			06/13/20 22:30	1.19
1,3,5-Trimethylbenzene	ND		2.9		ug/m3			06/13/20 22:30	1.19
1,3-Dichlorobenzene	ND		3.6		ug/m3			06/13/20 22:30	1.19
1,4-Dichlorobenzene	ND		3.6		ug/m3			06/13/20 22:30	1.19
2-Butanone	**12**		5.3		ug/m3			06/13/20 22:30	1.19
2-Hexanone	ND		7.3		ug/m3			06/13/20 22:30	1.19
4-Ethyltoluene	ND		2.9		ug/m3			06/13/20 22:30	1.19
4-Methyl-2-pentanone	ND		7.3		ug/m3			06/13/20 22:30	1.19
Acetone	**65**		5.7		ug/m3			06/13/20 22:30	1.19
Benzene	ND		1.9		ug/m3			06/13/20 22:30	1.19
Benzyl chloride	ND		9.2		ug/m3			06/13/20 22:30	1.19
Bromodichloromethane	ND		4.0		ug/m3			06/13/20 22:30	1.19
Bromoform	ND		6.2		ug/m3			06/13/20 22:30	1.19
Bromomethane	ND		2.3		ug/m3			06/13/20 22:30	1.19
cis-1,2-Dichloroethene	ND		2.4		ug/m3			06/13/20 22:30	1.19
cis-1,3-Dichloropropene	ND		2.7		ug/m3			06/13/20 22:30	1.19
Carbon disulfide	ND		7.4		ug/m3			06/13/20 22:30	1.19
Carbon tetrachloride	ND		3.7		ug/m3			06/13/20 22:30	1.19

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SS-6
Date Collected: 06/12/20 12:01
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		2.7		ug/m3			06/13/20 22:30	1.19
Chloroethane	ND		1.6		ug/m3			06/13/20 22:30	1.19
Chloroform	ND		2.9		ug/m3			06/13/20 22:30	1.19
Chloromethane	ND		1.2		ug/m3			06/13/20 22:30	1.19
Dibromochloromethane	ND		5.1		ug/m3			06/13/20 22:30	1.19
Dichlorodifluoromethane	**3.2**		2.9		ug/m3			06/13/20 22:30	1.19
Dichlorotetrafluoroethane	ND		17		ug/m3			06/13/20 22:30	1.19
Ethylbenzene	ND		2.6		ug/m3			06/13/20 22:30	1.19
Hexachloro-1,3-butadiene	ND		19		ug/m3			06/13/20 22:30	1.19
Isopropanol	**33**		15		ug/m3			06/13/20 22:30	1.19
Methylene Chloride	ND		21		ug/m3			06/13/20 22:30	1.19
Methyl-t-Butyl Ether (MTBE)	ND		8.6		ug/m3			06/13/20 22:30	1.19
n-Butylbenzene	ND		9.8		ug/m3			06/13/20 22:30	1.19
o-Xylene	ND		2.6		ug/m3			06/13/20 22:30	1.19
m,p-Xylene	ND		10		ug/m3			06/13/20 22:30	1.19
sec-Butylbenzene	ND		9.8		ug/m3			06/13/20 22:30	1.19
Styrene	ND		7.6		ug/m3			06/13/20 22:30	1.19
trans-1,2-Dichloroethene	ND		2.4		ug/m3			06/13/20 22:30	1.19
trans-1,3-Dichloropropene	ND		5.4		ug/m3			06/13/20 22:30	1.19
tert-Butylbenzene	ND		9.8		ug/m3			06/13/20 22:30	1.19
Tetrachloroethene	**5.5**		4.0		ug/m3			06/13/20 22:30	1.19
Toluene	**2.8**		2.2		ug/m3			06/13/20 22:30	1.19
Trichloroethene	ND		3.2		ug/m3			06/13/20 22:30	1.19
Trichlorofluoromethane	ND		6.7		ug/m3			06/13/20 22:30	1.19
Vinyl acetate	ND		8.4		ug/m3			06/13/20 22:30	1.19
Vinyl chloride	ND		1.5		ug/m3			06/13/20 22:30	1.19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*06/13/20 22:30*	*1.19*
4-Bromofluorobenzene (Surr)	*94*		*67 - 131*		*06/13/20 22:30*	*1.19*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/13/20 22:30*	*1.19*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Client Sample ID: SS-5
Date Collected: 06/11/20 17:20
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	780		21		ug/m3			06/15/20 18:26	4.475

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*06/15/20 18:26*	*4.475*
4-Bromofluorobenzene (Surr)	*93*		*67 - 131*		*06/15/20 18:26*	*4.475*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/15/20 18:26*	*4.475*

Client Sample ID: SS-1
Date Collected: 06/12/20 08:47
Date Received: 06/12/20 15:57
Sample Container: Summa Canister 1L

Lab Sample ID: 570-30828-4
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	360		12		ug/m3			06/15/20 19:15	2.52

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*06/15/20 19:15*	*2.52*
4-Bromofluorobenzene (Surr)	*97*		*67 - 131*		*06/15/20 19:15*	*2.52*
Toluene-d8 (Surr)	*102*		*70 - 130*		*06/15/20 19:15*	*2.52*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(67-131)	(70-130)
570-30828-1	SS-3	91	93	96
570-30828-2	SS-5	92	95	101
570-30828-2 - DL	SS-5	104	93	99
570-30828-3	SS-4	95	89	97
570-30828-4	SS-1	99	103	100
570-30828-4 - DL	SS-1	107	97	102
570-30828-5	SS-7	96	95	90
570-30828-6	SS-2	96	102	91
570-30828-7	SS-6	99	94	96
LCS 570-75202/3	Lab Control Sample	89	95	100
LCS 570-75427/3	Lab Control Sample	102	99	100
LCSD 570-75202/4	Lab Control Sample Dup	88	94	99
LCSD 570-75427/4	Lab Control Sample Dup	99	98	98
MB 570-75202/6	Method Blank	91	93	100
MB 570-75427/6	Method Blank	102	97	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 570-75202/6
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7		ug/m3			06/13/20 13:50	1
1,1,2,2-Tetrachloroethane	ND		6.9		ug/m3			06/13/20 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/m3			06/13/20 13:50	1
1,1,2-Trichloroethane	ND		2.7		ug/m3			06/13/20 13:50	1
1,1-Dichloroethane	ND		2.0		ug/m3			06/13/20 13:50	1
1,1-Dichloroethene	ND		2.0		ug/m3			06/13/20 13:50	1
1,1-Difluoroethane	ND		5.4		ug/m3			06/13/20 13:50	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			06/13/20 13:50	1
1,2,4-Trimethylbenzene	ND		7.4		ug/m3			06/13/20 13:50	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/m3			06/13/20 13:50	1
1,2-Dibromoethane	ND		3.8		ug/m3			06/13/20 13:50	1
1,2-Dichlorobenzene	ND		3.0		ug/m3			06/13/20 13:50	1
1,2-Dichloroethane	ND		2.0		ug/m3			06/13/20 13:50	1
1,2-Dichloropropane	ND		2.3		ug/m3			06/13/20 13:50	1
1,3,5-Trimethylbenzene	ND		2.5		ug/m3			06/13/20 13:50	1
1,3-Dichlorobenzene	ND		3.0		ug/m3			06/13/20 13:50	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			06/13/20 13:50	1
2-Butanone	ND		4.4		ug/m3			06/13/20 13:50	1
2-Hexanone	ND		6.1		ug/m3			06/13/20 13:50	1
4-Ethyltoluene	ND		2.5		ug/m3			06/13/20 13:50	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			06/13/20 13:50	1
Acetone	ND		4.8		ug/m3			06/13/20 13:50	1
Benzene	ND		1.6		ug/m3			06/13/20 13:50	1
Benzyl chloride	ND		7.8		ug/m3			06/13/20 13:50	1
Bromodichloromethane	ND		3.4		ug/m3			06/13/20 13:50	1
Bromoform	ND		5.2		ug/m3			06/13/20 13:50	1
Bromomethane	ND		1.9		ug/m3			06/13/20 13:50	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			06/13/20 13:50	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			06/13/20 13:50	1
Carbon disulfide	ND		6.2		ug/m3			06/13/20 13:50	1
Carbon tetrachloride	ND		3.1		ug/m3			06/13/20 13:50	1
Chlorobenzene	ND		2.3		ug/m3			06/13/20 13:50	1
Chloroethane	ND		1.3		ug/m3			06/13/20 13:50	1
Chloroform	ND		2.4		ug/m3			06/13/20 13:50	1
Chloromethane	ND		1.0		ug/m3			06/13/20 13:50	1
Dibromochloromethane	ND		4.3		ug/m3			06/13/20 13:50	1
Dichlorodifluoromethane	ND		2.5		ug/m3			06/13/20 13:50	1
Dichlorotetrafluoroethane	ND		14		ug/m3			06/13/20 13:50	1
Ethylbenzene	ND		2.2		ug/m3			06/13/20 13:50	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			06/13/20 13:50	1
Isopropanol	ND		12		ug/m3			06/13/20 13:50	1
Methylene Chloride	ND		17		ug/m3			06/13/20 13:50	1
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			06/13/20 13:50	1
n-Butylbenzene	ND		8.2		ug/m3			06/13/20 13:50	1
o-Xylene	ND		2.2		ug/m3			06/13/20 13:50	1
m,p-Xylene	ND		8.7		ug/m3			06/13/20 13:50	1
sec-Butylbenzene	ND		8.2		ug/m3			06/13/20 13:50	1
Styrene	ND		6.4		ug/m3			06/13/20 13:50	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-75202/6
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0		ug/m3			06/13/20 13:50	1
trans-1,3-Dichloropropene	ND		4.5		ug/m3			06/13/20 13:50	1
tert-Butylbenzene	ND		8.2		ug/m3			06/13/20 13:50	1
Tetrachloroethene	ND		3.4		ug/m3			06/13/20 13:50	1
Toluene	ND		1.9		ug/m3			06/13/20 13:50	1
Trichloroethene	ND		2.7		ug/m3			06/13/20 13:50	1
Trichlorofluoromethane	ND		5.6		ug/m3			06/13/20 13:50	1
Vinyl acetate	ND		7.0		ug/m3			06/13/20 13:50	1
Vinyl chloride	ND		1.3		ug/m3			06/13/20 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*06/13/20 13:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*67 - 131*		*06/13/20 13:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/13/20 13:50*	*1*

Lab Sample ID: LCS 570-75202/3
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	139.0		ug/m3		102	70 - 137
1,1,2,2-Tetrachloroethane	172	185.1		ug/m3		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	192	204.6		ug/m3		107	70 - 130
1,1,2-Trichloroethane	136	152.5		ug/m3		112	70 - 130
1,1-Dichloroethane	101	103.8		ug/m3		103	70 - 131
1,1-Dichloroethene	99.1	98.69		ug/m3		100	70 - 130
1,1-Difluoroethane	67.5	58.70		ug/m3		87	60 - 130
1,2,4-Trichlorobenzene	186	265.9	*	ug/m3		143	56 - 130
1,2,4-Trimethylbenzene	123	130.6		ug/m3		106	70 - 130
1,2-Dibromo-3-Chloropropane	242	279.6		ug/m3		116	68 - 130
1,2-Dibromoethane	192	216.3		ug/m3		113	70 - 130
1,2-Dichlorobenzene	150	172.2		ug/m3		115	70 - 130
1,2-Dichloroethane	101	99.55		ug/m3		98	70 - 134
1,2-Dichloropropane	116	123.9		ug/m3		107	70 - 130
1,3,5-Trimethylbenzene	123	128.7		ug/m3		105	70 - 130
1,3-Dichlorobenzene	150	180.2		ug/m3		120	69 - 132
1,4-Dichlorobenzene	150	185.5		ug/m3		123	67 - 132
2-Butanone	73.7	73.72		ug/m3		100	64 - 143
2-Hexanone	102	119.2		ug/m3		116	59 - 140
4-Ethyltoluene	123	137.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone	102	112.4		ug/m3		110	64 - 133
Acetone	59.4	60.03		ug/m3		101	69 - 146
Benzene	79.9	92.78		ug/m3		116	70 - 133
Benzyl chloride	129	143.1		ug/m3		111	63 - 130
Bromodichloromethane	168	180.7		ug/m3		108	70 - 130
Bromoform	258	291.9		ug/m3		113	70 - 132
Bromomethane	97.1	107.1		ug/m3		110	70 - 137
cis-1,2-Dichloroethene	99.1	110.6		ug/m3		112	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-75202/3
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	113	125.6		ug/m3		111	70 - 130
Carbon disulfide	77.9	83.35		ug/m3		107	70 - 150
Carbon tetrachloride	157	162.8		ug/m3		104	70 - 130
Chlorobenzene	115	124.1		ug/m3		108	70 - 130
Chloroethane	66.0	69.54		ug/m3		105	70 - 137
Chloroform	122	126.2		ug/m3		103	70 - 132
Chloromethane	51.6	49.89		ug/m3		97	65 - 142
Dibromochloromethane	213	228.0		ug/m3		107	70 - 130
Dichlorodifluoromethane	124	122.9		ug/m3		99	70 - 142
Dichlorotetrafluoroethane	175	179.3		ug/m3		103	70 - 137
Ethylbenzene	109	115.7		ug/m3		107	70 - 130
Hexachloro-1,3-butadiene	267	297.7		ug/m3		112	55 - 130
Isopropanol	61.5	60.75		ug/m3		99	60 - 130
Methylene Chloride	86.8	91.29		ug/m3		105	70 - 130
Methyl-t-Butyl Ether (MTBE)	90.1	95.32		ug/m3		106	70 - 132
n-Butylbenzene	137	140.1		ug/m3		102	70 - 130
o-Xylene	109	116.2		ug/m3		107	70 - 130
m,p-Xylene	217	232.4		ug/m3		107	70 - 130
sec-Butylbenzene	137	134.2		ug/m3		98	70 - 130
Styrene	106	116.6		ug/m3		110	70 - 130
trans-1,2-Dichloroethene	99.1	108.7		ug/m3		110	70 - 140
trans-1,3-Dichloropropene	113	126.5		ug/m3		112	70 - 130
tert-Butylbenzene	137	135.9		ug/m3		99	70 - 130
Tetrachloroethene	170	185.8		ug/m3		110	70 - 130
Toluene	94.2	107.1		ug/m3		114	70 - 130
Trichloroethene	134	147.3		ug/m3		110	70 - 130
Trichlorofluoromethane	140	145.7		ug/m3		104	70 - 143
Vinyl acetate	88.0	91.73		ug/m3		104	67 - 138
Vinyl chloride	63.9	63.75		ug/m3		100	70 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*67 - 131*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 570-75202/4
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	138.4		ug/m3		101	70 - 137	0	25
1,1,2,2-Tetrachloroethane	172	186.8		ug/m3		109	70 - 130	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	192	205.0		ug/m3		107	70 - 130	0	25
1,1,2-Trichloroethane	136	153.5		ug/m3		112	70 - 130	1	25
1,1-Dichloroethane	101	104.1		ug/m3		103	70 - 131	0	25
1,1-Dichloroethene	99.1	98.88		ug/m3		100	70 - 130	0	25
1,1-Difluoroethane	67.5	58.50		ug/m3		87	60 - 130	0	25
1,2,4-Trichlorobenzene	186	267.7	*	ug/m3		144	56 - 130	1	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-75202/4
Matrix: Air
Analysis Batch: 75202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	123	130.8		ug/m3		106	70 - 130	0	25
1,2-Dibromo-3-Chloropropane	242	281.6		ug/m3		117	68 - 130	1	25
1,2-Dibromoethane	192	216.9		ug/m3		113	70 - 130	0	25
1,2-Dichlorobenzene	150	177.7		ug/m3		118	70 - 130	3	25
1,2-Dichloroethane	101	98.51		ug/m3		97	70 - 134	1	25
1,2-Dichloropropane	116	123.2		ug/m3		107	70 - 130	1	25
1,3,5-Trimethylbenzene	123	127.1		ug/m3		103	70 - 130	1	25
1,3-Dichlorobenzene	150	184.4		ug/m3		123	69 - 132	2	25
1,4-Dichlorobenzene	150	191.0		ug/m3		127	67 - 132	3	25
2-Butanone	73.7	73.31		ug/m3		99	64 - 143	1	25
2-Hexanone	102	113.6		ug/m3		111	59 - 140	5	25
4-Ethyltoluene	123	139.9		ug/m3		114	70 - 130	2	25
4-Methyl-2-pentanone	102	113.1		ug/m3		110	64 - 133	1	25
Acetone	59.4	60.52		ug/m3		102	69 - 146	1	25
Benzene	79.9	93.81		ug/m3		117	70 - 133	1	25
Benzyl chloride	129	150.7		ug/m3		116	63 - 130	5	25
Bromodichloromethane	168	179.9		ug/m3		107	70 - 130	0	25
Bromoform	258	292.8		ug/m3		113	70 - 132	0	25
Bromomethane	97.1	107.1		ug/m3		110	70 - 137	0	25
cis-1,2-Dichloroethene	99.1	110.6		ug/m3		112	70 - 130	0	25
cis-1,3-Dichloropropene	113	124.1		ug/m3		109	70 - 130	1	25
Carbon disulfide	77.9	83.22		ug/m3		107	70 - 150	0	25
Carbon tetrachloride	157	162.2		ug/m3		103	70 - 130	0	25
Chlorobenzene	115	123.8		ug/m3		108	70 - 130	0	25
Chloroethane	66.0	68.91		ug/m3		104	70 - 137	1	25
Chloroform	122	125.9		ug/m3		103	70 - 132	0	25
Chloromethane	51.6	50.25		ug/m3		97	65 - 142	1	25
Dibromochloromethane	213	227.5		ug/m3		107	70 - 130	0	25
Dichlorodifluoromethane	124	124.2		ug/m3		100	70 - 142	1	25
Dichlorotetrafluoroethane	175	179.9		ug/m3		103	70 - 137	0	25
Ethylbenzene	109	115.9		ug/m3		107	70 - 130	0	25
Hexachloro-1,3-butadiene	267	297.7		ug/m3		112	55 - 130	0	25
Isopropanol	61.5	58.69		ug/m3		96	60 - 130	3	25
Methylene Chloride	86.8	91.11		ug/m3		105	70 - 130	0	25
Methyl-t-Butyl Ether (MTBE)	90.1	95.21		ug/m3		106	70 - 132	0	25
n-Butylbenzene	137	142.0		ug/m3		103	70 - 130	1	25
o-Xylene	109	115.4		ug/m3		106	70 - 130	1	25
m,p-Xylene	217	233.5		ug/m3		108	70 - 130	0	25
sec-Butylbenzene	137	134.9		ug/m3		98	70 - 130	1	25
Styrene	106	115.8		ug/m3		109	70 - 130	1	25
trans-1,2-Dichloroethene	99.1	111.3		ug/m3		112	70 - 140	2	25
trans-1,3-Dichloropropene	113	125.8		ug/m3		111	70 - 130	1	25
tert-Butylbenzene	137	135.3		ug/m3		99	70 - 130	0	25
Tetrachloroethene	170	185.8		ug/m3		110	70 - 130	0	25
Toluene	94.2	106.5		ug/m3		113	70 - 130	1	25
Trichloroethene	134	146.5		ug/m3		109	70 - 130	1	25
Trichlorofluoromethane	140	145.8		ug/m3		104	70 - 143	0	25
Vinyl acetate	88.0	91.48		ug/m3		104	67 - 138	0	25
Vinyl chloride	63.9	64.22		ug/m3		100	70 - 133	1	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*67 - 131*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 570-75427/6
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7		ug/m3			06/15/20 15:03	1
1,1,2,2-Tetrachloroethane	ND		6.9		ug/m3			06/15/20 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/m3			06/15/20 15:03	1
1,1,2-Trichloroethane	ND		2.7		ug/m3			06/15/20 15:03	1
1,1-Dichloroethane	ND		2.0		ug/m3			06/15/20 15:03	1
1,1-Dichloroethene	ND		2.0		ug/m3			06/15/20 15:03	1
1,1-Difluoroethane	ND		5.4		ug/m3			06/15/20 15:03	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			06/15/20 15:03	1
1,2,4-Trimethylbenzene	ND		7.4		ug/m3			06/15/20 15:03	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/m3			06/15/20 15:03	1
1,2-Dibromoethane	ND		3.8		ug/m3			06/15/20 15:03	1
1,2-Dichlorobenzene	ND		3.0		ug/m3			06/15/20 15:03	1
1,2-Dichloroethane	ND		2.0		ug/m3			06/15/20 15:03	1
1,2-Dichloropropane	ND		2.3		ug/m3			06/15/20 15:03	1
1,3,5-Trimethylbenzene	ND		2.5		ug/m3			06/15/20 15:03	1
1,3-Dichlorobenzene	ND		3.0		ug/m3			06/15/20 15:03	1
1,4-Dichlorobenzene	ND		3.0		ug/m3			06/15/20 15:03	1
2-Butanone	ND		4.4		ug/m3			06/15/20 15:03	1
2-Hexanone	ND		6.1		ug/m3			06/15/20 15:03	1
4-Ethyltoluene	ND		2.5		ug/m3			06/15/20 15:03	1
4-Methyl-2-pentanone	ND		6.1		ug/m3			06/15/20 15:03	1
Acetone	ND		4.8		ug/m3			06/15/20 15:03	1
Benzene	ND		1.6		ug/m3			06/15/20 15:03	1
Benzyl chloride	ND		7.8		ug/m3			06/15/20 15:03	1
Bromodichloromethane	ND		3.4		ug/m3			06/15/20 15:03	1
Bromoform	ND		5.2		ug/m3			06/15/20 15:03	1
Bromomethane	ND		1.9		ug/m3			06/15/20 15:03	1
cis-1,2-Dichloroethene	ND		2.0		ug/m3			06/15/20 15:03	1
cis-1,3-Dichloropropene	ND		2.3		ug/m3			06/15/20 15:03	1
Carbon disulfide	ND		6.2		ug/m3			06/15/20 15:03	1
Carbon tetrachloride	ND		3.1		ug/m3			06/15/20 15:03	1
Chlorobenzene	ND		2.3		ug/m3			06/15/20 15:03	1
Chloroethane	ND		1.3		ug/m3			06/15/20 15:03	1
Chloroform	ND		2.4		ug/m3			06/15/20 15:03	1
Chloromethane	ND		1.0		ug/m3			06/15/20 15:03	1
Dibromochloromethane	ND		4.3		ug/m3			06/15/20 15:03	1
Dichlorodifluoromethane	ND		2.5		ug/m3			06/15/20 15:03	1
Dichlorotetrafluoroethane	ND		14		ug/m3			06/15/20 15:03	1
Ethylbenzene	ND		2.2		ug/m3			06/15/20 15:03	1
Hexachloro-1,3-butadiene	ND		16		ug/m3			06/15/20 15:03	1
Isopropanol	ND		12		ug/m3			06/15/20 15:03	1
Methylene Chloride	ND		17		ug/m3			06/15/20 15:03	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-75427/6
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		7.2		ug/m3			06/15/20 15:03	1
n-Butylbenzene	ND		8.2		ug/m3			06/15/20 15:03	1
o-Xylene	ND		2.2		ug/m3			06/15/20 15:03	1
m,p-Xylene	ND		8.7		ug/m3			06/15/20 15:03	1
sec-Butylbenzene	ND		8.2		ug/m3			06/15/20 15:03	1
Styrene	ND		6.4		ug/m3			06/15/20 15:03	1
trans-1,2-Dichloroethene	ND		2.0		ug/m3			06/15/20 15:03	1
trans-1,3-Dichloropropene	ND		4.5		ug/m3			06/15/20 15:03	1
tert-Butylbenzene	ND		8.2		ug/m3			06/15/20 15:03	1
Tetrachloroethene	ND		3.4		ug/m3			06/15/20 15:03	1
Toluene	ND		1.9		ug/m3			06/15/20 15:03	1
Trichloroethene	ND		2.7		ug/m3			06/15/20 15:03	1
Trichlorofluoromethane	ND		5.6		ug/m3			06/15/20 15:03	1
Vinyl acetate	ND		7.0		ug/m3			06/15/20 15:03	1
Vinyl chloride	ND		1.3		ug/m3			06/15/20 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*06/15/20 15:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*67 - 131*		*06/15/20 15:03*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/15/20 15:03*	*1*

Lab Sample ID: LCS 570-75427/3
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	136	150.4		ug/m3		110	70 - 137
1,1,2,2-Tetrachloroethane	172	178.8		ug/m3		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	192	224.0		ug/m3		117	70 - 130
1,1,2-Trichloroethane	136	150.8		ug/m3		111	70 - 130
1,1-Dichloroethane	101	104.0		ug/m3		103	70 - 131
1,1-Dichloroethene	99.1	111.0		ug/m3		112	70 - 130
1,1-Difluoroethane	67.5	65.07		ug/m3		96	60 - 130
1,2,4-Trimethylbenzene	123	135.2		ug/m3		110	70 - 130
1,2-Dibromo-3-Chloropropane	242	294.6		ug/m3		122	68 - 130
1,2-Dibromoethane	192	214.3		ug/m3		112	70 - 130
1,2-Dichlorobenzene	150	177.5		ug/m3		118	70 - 130
1,2-Dichloroethane	101	112.5		ug/m3		111	70 - 134
1,2-Dichloropropane	116	117.9		ug/m3		102	70 - 130
1,3,5-Trimethylbenzene	123	129.1		ug/m3		105	70 - 130
1,3-Dichlorobenzene	150	182.5		ug/m3		121	69 - 132
1,4-Dichlorobenzene	150	189.1		ug/m3		126	67 - 132
2-Butanone	73.7	72.94		ug/m3		99	64 - 143
2-Hexanone	102	105.5		ug/m3		103	59 - 140
4-Ethyltoluene	123	138.7		ug/m3		113	70 - 130
4-Methyl-2-pentanone	102	108.2		ug/m3		106	64 - 133
Acetone	59.4	63.81		ug/m3		107	69 - 146
Benzene	79.9	89.23		ug/m3		112	70 - 133

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-75427/3
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl chloride	129	157.1		ug/m3		121	63 - 130
Bromodichloromethane	168	196.3		ug/m3		117	70 - 130
Bromoform	258	309.0		ug/m3		120	70 - 132
Bromomethane	97.1	115.0		ug/m3		118	70 - 137
cis-1,2-Dichloroethene	99.1	105.3		ug/m3		106	70 - 130
cis-1,3-Dichloropropene	113	125.4		ug/m3		110	70 - 130
Carbon disulfide	77.9	86.82		ug/m3		112	70 - 150
Carbon tetrachloride	157	188.6		ug/m3		120	70 - 130
Chlorobenzene	115	121.2		ug/m3		105	70 - 130
Chloroethane	66.0	74.03		ug/m3		112	70 - 137
Chloroform	122	130.2		ug/m3		107	70 - 132
Chloromethane	51.6	53.85		ug/m3		104	65 - 142
Dibromochloromethane	213	239.4		ug/m3		112	70 - 130
Dichlorodifluoromethane	124	148.5		ug/m3		120	70 - 142
Dichlorotetrafluoroethane	175	203.0		ug/m3		116	70 - 137
Ethylbenzene	109	113.7		ug/m3		105	70 - 130
Hexachloro-1,3-butadiene	267	314.4		ug/m3		118	55 - 130
Isopropanol	61.5	66.20		ug/m3		108	60 - 130
Methylene Chloride	86.8	93.59		ug/m3		108	70 - 130
Methyl-t-Butyl Ether (MTBE)	90.1	95.46		ug/m3		106	70 - 132
n-Butylbenzene	137	147.6		ug/m3		108	70 - 130
o-Xylene	109	118.4		ug/m3		109	70 - 130
m,p-Xylene	217	237.9		ug/m3		110	70 - 130
sec-Butylbenzene	137	138.7		ug/m3		101	70 - 130
Styrene	106	114.9		ug/m3		108	70 - 130
trans-1,2-Dichloroethene	99.1	105.8		ug/m3		107	70 - 140
trans-1,3-Dichloropropene	113	133.0		ug/m3		117	70 - 130
tert-Butylbenzene	137	142.1		ug/m3		104	70 - 130
Tetrachloroethene	170	184.6		ug/m3		109	70 - 130
Toluene	94.2	101.1		ug/m3		107	70 - 130
Trichloroethene	134	149.0		ug/m3		111	70 - 130
Trichlorofluoromethane	140	177.1		ug/m3		126	70 - 143
Vinyl acetate	88.0	91.06		ug/m3		103	67 - 138
Vinyl chloride	63.9	68.12		ug/m3		107	70 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*67 - 131*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 570-75427/4
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	136	156.1		ug/m3		114	70 - 137	4	25
1,1,2,2-Tetrachloroethane	172	192.3		ug/m3		112	70 - 130	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	192	227.1		ug/m3		119	70 - 130	1	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-75427/4
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	136	156.0		ug/m3		114	70 - 130	3	25
1,1-Dichloroethane	101	109.0		ug/m3		108	70 - 131	5	25
1,1-Dichloroethene	99.1	113.7		ug/m3		115	70 - 130	2	25
1,1-Difluoroethane	67.5	66.89		ug/m3		99	60 - 130	3	25
1,2,4-Trimethylbenzene	123	144.0		ug/m3		117	70 - 130	6	25
1,2-Dibromo-3-Chloropropane	242	311.8		ug/m3		129	68 - 130	6	25
1,2-Dibromoethane	192	226.9		ug/m3		118	70 - 130	6	25
1,2-Dichlorobenzene	150	191.6		ug/m3		127	70 - 130	8	25
1,2-Dichloroethane	101	115.7		ug/m3		114	70 - 134	3	25
1,2-Dichloropropane	116	123.7		ug/m3		107	70 - 130	5	25
1,3,5-Trimethylbenzene	123	137.8		ug/m3		112	70 - 130	6	25
1,3-Dichlorobenzene	150	196.6		ug/m3		131	69 - 132	7	25
1,4-Dichlorobenzene	150	203.3	* me	ug/m3		135	67 - 132	7	25
2-Butanone	73.7	77.06		ug/m3		105	64 - 143	6	25
2-Hexanone	102	113.1		ug/m3		110	59 - 140	7	25
4-Ethyltoluene	123	146.8		ug/m3		119	70 - 130	6	25
4-Methyl-2-pentanone	102	112.1		ug/m3		109	64 - 133	4	25
Acetone	59.4	64.98		ug/m3		109	69 - 146	2	25
Benzene	79.9	92.99		ug/m3		116	70 - 133	4	25
Benzyl chloride	129	164.9		ug/m3		127	63 - 130	5	25
Bromodichloromethane	168	200.3		ug/m3		120	70 - 130	2	25
Bromoform	258	322.5		ug/m3		125	70 - 132	4	25
Bromomethane	97.1	118.1		ug/m3		122	70 - 137	3	25
cis-1,2-Dichloroethene	99.1	110.9		ug/m3		112	70 - 130	5	25
cis-1,3-Dichloropropene	113	129.9		ug/m3		114	70 - 130	4	25
Carbon disulfide	77.9	88.93		ug/m3		114	70 - 150	2	25
Carbon tetrachloride	157	192.4		ug/m3		122	70 - 130	2	25
Chlorobenzene	115	129.2		ug/m3		112	70 - 130	6	25
Chloroethane	66.0	75.91		ug/m3		115	70 - 137	3	25
Chloroform	122	136.0		ug/m3		111	70 - 132	4	25
Chloromethane	51.6	55.28		ug/m3		107	65 - 142	3	25
Dibromochloromethane	213	252.1		ug/m3		118	70 - 130	5	25
Dichlorodifluoromethane	124	150.4		ug/m3		122	70 - 142	1	25
Dichlorotetrafluoroethane	175	206.4		ug/m3		118	70 - 137	2	25
Ethylbenzene	109	121.2		ug/m3		112	70 - 130	6	25
Hexachloro-1,3-butadiene	267	345.3		ug/m3		129	55 - 130	9	25
Isopropanol	61.5	67.56		ug/m3		110	60 - 130	2	25
Methylene Chloride	86.8	96.67		ug/m3		111	70 - 130	3	25
Methyl-t-Butyl Ether (MTBE)	90.1	99.61		ug/m3		111	70 - 132	4	25
n-Butylbenzene	137	155.4		ug/m3		113	70 - 130	5	25
o-Xylene	109	125.0		ug/m3		115	70 - 130	5	25
m,p-Xylene	217	250.3		ug/m3		115	70 - 130	5	25
sec-Butylbenzene	137	146.0		ug/m3		106	70 - 130	5	25
Styrene	106	119.9		ug/m3		113	70 - 130	4	25
trans-1,2-Dichloroethene	99.1	112.2		ug/m3		113	70 - 140	6	25
trans-1,3-Dichloropropene	113	136.7		ug/m3		121	70 - 130	3	25
tert-Butylbenzene	137	148.9		ug/m3		108	70 - 130	5	25
Tetrachloroethene	170	197.1		ug/m3		116	70 - 130	7	25
Toluene	94.2	107.4		ug/m3		114	70 - 130	6	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-75427/4
Matrix: Air
Analysis Batch: 75427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene			134	153.8		ug/m3		114	70 - 130	3	25
Trichlorofluoromethane			140	179.0		ug/m3		127	70 - 143	1	25
Vinyl acetate			88.0	93.55		ug/m3		106	67 - 138	3	25
Vinyl chloride			63.9	70.60		ug/m3		110	70 - 133	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*67 - 131*
Toluene-d8 (Surr)	*98*		*70 - 130*

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: LCS 570-75202/3
Matrix: Air

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1-Trichloroethane	136	139.0		ug/m3	102	70 - 137	59 - 148	
1,1,2,2-Tetrachloroethane	172	185.1		ug/m3	108	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	192	204.6		ug/m3	107	70 - 130	60 - 140	
1,1,2-Trichloroethane	136	152.5		ug/m3	112	70 - 130	60 - 140	
1,1-Dichloroethane	101	103.8		ug/m3	103	70 - 131	60 - 141	
1,1-Dichloroethene	99.1	98.69		ug/m3	100	70 - 130	60 - 140	
1,1-Difluoroethane	67.5	58.70		ug/m3	87	60 - 130	48 - 142	
1,2,4-Trichlorobenzene	186	265.9	*	ug/m3	143	56 - 130	44 - 142	X
1,2,4-Trimethylbenzene	123	130.6		ug/m3	106	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	242	279.6		ug/m3	116	68 - 130	58 - 140	
1,2-Dibromoethane	192	216.3		ug/m3	113	70 - 130	60 - 140	
1,2-Dichlorobenzene	150	172.2		ug/m3	115	70 - 130	60 - 140	
1,2-Dichloroethane	101	99.55		ug/m3	98	70 - 134	59 - 145	
1,2-Dichloropropane	116	123.9		ug/m3	107	70 - 130	60 - 140	
1,3,5-Trimethylbenzene	123	128.7		ug/m3	105	70 - 130	60 - 140	
1,3-Dichlorobenzene	150	180.2		ug/m3	120	69 - 132	59 - 143	
1,4-Dichlorobenzene	150	185.5		ug/m3	123	67 - 132	56 - 143	
2-Butanone	73.7	73.72		ug/m3	100	64 - 143	51 - 156	
2-Hexanone	102	119.2		ug/m3	116	59 - 140	46 - 154	
4-Ethyltoluene	123	137.1		ug/m3	112	70 - 130	60 - 140	
4-Methyl-2-pentanone	102	112.4		ug/m3	110	64 - 133	53 - 145	
Acetone	59.4	60.03		ug/m3	101	69 - 146	56 - 159	
Benzene	79.9	92.78		ug/m3	116	70 - 133	60 - 144	
Benzyl chloride	129	143.1		ug/m3	111	63 - 130	52 - 141	
Bromodichloromethane	168	180.7		ug/m3	108	70 - 130	60 - 140	
Bromoform	258	291.9		ug/m3	113	70 - 132	60 - 142	
Bromomethane	97.1	107.1		ug/m3	110	70 - 137	59 - 148	
cis-1,2-Dichloroethene	99.1	110.6		ug/m3	112	70 - 130	60 - 140	
cis-1,3-Dichloropropene	113	125.6		ug/m3	111	70 - 130	60 - 140	
Carbon disulfide	77.9	83.35		ug/m3	107	70 - 150	57 - 163	
Carbon tetrachloride	157	162.8		ug/m3	104	70 - 130	60 - 140	
Chlorobenzene	115	124.1		ug/m3	108	70 - 130	60 - 140	
Chloroethane	66.0	69.54		ug/m3	105	70 - 137	59 - 148	
Chloroform	122	126.2		ug/m3	103	70 - 132	60 - 142	
Chloromethane	51.6	49.89		ug/m3	97	65 - 142	52 - 155	
Dibromochloromethane	213	228.0		ug/m3	107	70 - 130	60 - 140	
Dichlorodifluoromethane	124	122.9		ug/m3	99	70 - 142	58 - 154	
Dichlorotetrafluoroethane	175	179.3		ug/m3	103	70 - 137	59 - 148	
Ethylbenzene	109	115.7		ug/m3	107	70 - 130	60 - 140	
Hexachloro-1,3-butadiene	267	297.7		ug/m3	112	55 - 130	43 - 143	
Isopropanol	61.5	60.75		ug/m3	99	60 - 130	48 - 142	
Methylene Chloride	86.8	91.29		ug/m3	105	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	90.1	95.32		ug/m3	106	70 - 132	76 - 140	
n-Butylbenzene	137	140.1		ug/m3	102	70 - 130	60 - 140	
o-Xylene	109	116.2		ug/m3	107	70 - 130	60 - 140	
m,p-Xylene	217	232.4		ug/m3	107	70 - 130	60 - 140	
sec-Butylbenzene	137	134.2		ug/m3	98	70 - 130	60 - 140	
Styrene	106	116.6		ug/m3	110	70 - 130	60 - 140	
trans-1,2-Dichloroethene	99.1	108.7		ug/m3	110	70 - 140	58 - 152	

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 570-75202/3
Matrix: Air

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
trans-1,3-Dichloropropene	113	126.5		ug/m3	112	70 - 130	60 - 140	
tert-Butylbenzene	137	135.9		ug/m3	99	70 - 130	60 - 140	
Tetrachloroethene	170	185.8		ug/m3	110	70 - 130	60 - 140	
Toluene	94.2	107.1		ug/m3	114	70 - 130	60 - 140	
Trichloroethene	134	147.3		ug/m3	110	70 - 130	60 - 140	
Trichlorofluoromethane	140	145.7		ug/m3	104	70 - 143	58 - 155	
Vinyl acetate	88.0	91.73		ug/m3	104	67 - 138	55 - 150	
Vinyl chloride	63.9	63.75		ug/m3	100	70 - 133	60 - 144	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
57	3	0

X = % Recovery is greater than widest possible limit

Lab Sample ID: LCSD 570-75202/4
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1-Trichloroethane	136	138.4		ug/m3	101	70 - 137	59 - 148	
1,1,2,2-Tetrachloroethane	172	186.8		ug/m3	109	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	192	205.0		ug/m3	107	70 - 130	60 - 140	
1,1,2-Trichloroethane	136	153.5		ug/m3	112	70 - 130	60 - 140	
1,1-Dichloroethane	101	104.1		ug/m3	103	70 - 131	60 - 141	
1,1-Dichloroethene	99.1	98.88		ug/m3	100	70 - 130	60 - 140	
1,1-Difluoroethane	67.5	58.50		ug/m3	87	60 - 130	48 - 142	
1,2,4-Trichlorobenzene	186	267.7	*	ug/m3	144	56 - 130	44 - 142	X
1,2,4-Trimethylbenzene	123	130.8		ug/m3	106	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	242	281.6		ug/m3	117	68 - 130	58 - 140	
1,2-Dibromoethane	192	216.9		ug/m3	113	70 - 130	60 - 140	
1,2-Dichlorobenzene	150	177.7		ug/m3	118	70 - 130	60 - 140	
1,2-Dichloroethane	101	98.51		ug/m3	97	70 - 134	59 - 145	
1,2-Dichloropropane	116	123.2		ug/m3	107	70 - 130	60 - 140	
1,3,5-Trimethylbenzene	123	127.1		ug/m3	103	70 - 130	60 - 140	
1,3-Dichlorobenzene	150	184.4		ug/m3	123	69 - 132	59 - 143	
1,4-Dichlorobenzene	150	191.0		ug/m3	127	67 - 132	56 - 143	
2-Butanone	73.7	73.31		ug/m3	99	64 - 143	51 - 156	
2-Hexanone	102	113.6		ug/m3	111	59 - 140	46 - 154	
4-Ethyltoluene	123	139.9		ug/m3	114	70 - 130	60 - 140	
4-Methyl-2-pentanone	102	113.1		ug/m3	110	64 - 133	53 - 145	
Acetone	59.4	60.52		ug/m3	102	69 - 146	56 - 159	
Benzene	79.9	93.81		ug/m3	117	70 - 133	60 - 144	
Benzyl chloride	129	150.7		ug/m3	116	63 - 130	52 - 141	
Bromodichloromethane	168	179.9		ug/m3	107	70 - 130	60 - 140	
Bromoform	258	292.8		ug/m3	113	70 - 132	60 - 142	
Bromomethane	97.1	107.1		ug/m3	110	70 - 137	59 - 148	
cis-1,2-Dichloroethene	99.1	110.6		ug/m3	112	70 - 130	60 - 140	
cis-1,3-Dichloropropene	113	124.1		ug/m3	109	70 - 130	60 - 140	
Carbon disulfide	77.9	83.22		ug/m3	107	70 - 150	57 - 163	

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-75202/4
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Carbon tetrachloride	157	162.2		ug/m3	103	70 - 130	60 - 140	
Chlorobenzene	115	123.8		ug/m3	108	70 - 130	60 - 140	
Chloroethane	66.0	68.91		ug/m3	104	70 - 137	59 - 148	
Chloroform	122	125.9		ug/m3	103	70 - 132	60 - 142	
Chloromethane	51.6	50.25		ug/m3	97	65 - 142	52 - 155	
Dibromochloromethane	213	227.5		ug/m3	107	70 - 130	60 - 140	
Dichlorodifluoromethane	124	124.2		ug/m3	100	70 - 142	58 - 154	
Dichlorotetrafluoroethane	175	179.9		ug/m3	103	70 - 137	59 - 148	
Ethylbenzene	109	115.9		ug/m3	107	70 - 130	60 - 140	
Hexachloro-1,3-butadiene	267	297.7		ug/m3	112	55 - 130	43 - 143	
Isopropanol	61.5	58.69		ug/m3	96	60 - 130	48 - 142	
Methylene Chloride	86.8	91.11		ug/m3	105	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	90.1	95.21		ug/m3	106	70 - 132	76 - 140	
n-Butylbenzene	137	142.0		ug/m3	103	70 - 130	60 - 140	
o-Xylene	109	115.4		ug/m3	106	70 - 130	60 - 140	
m,p-Xylene	217	233.5		ug/m3	108	70 - 130	60 - 140	
sec-Butylbenzene	137	134.9		ug/m3	98	70 - 130	60 - 140	
Styrene	106	115.8		ug/m3	109	70 - 130	60 - 140	
trans-1,2-Dichloroethene	99.1	111.3		ug/m3	112	70 - 140	58 - 152	
trans-1,3-Dichloropropene	113	125.8		ug/m3	111	70 - 130	60 - 140	
tert-Butylbenzene	137	135.3		ug/m3	99	70 - 130	60 - 140	
Tetrachloroethene	170	185.8		ug/m3	110	70 - 130	60 - 140	
Toluene	94.2	106.5		ug/m3	113	70 - 130	60 - 140	
Trichloroethene	134	146.5		ug/m3	109	70 - 130	60 - 140	
Trichlorofluoromethane	140	145.8		ug/m3	104	70 - 143	58 - 155	
Vinyl acetate	88.0	91.48		ug/m3	104	67 - 138	55 - 150	
Vinyl chloride	63.9	64.22		ug/m3	100	70 - 133	60 - 144	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
57	3	0

X = % Recovery is greater than widest possible limit

Lab Sample ID: LCSD 570-75427/4
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1-Trichloroethane	136	156.1		ug/m3	114	70 - 137	59 - 148	
1,1,2,2-Tetrachloroethane	172	192.3		ug/m3	112	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	192	227.1		ug/m3	119	70 - 130	60 - 140	
1,1,2-Trichloroethane	136	156.0		ug/m3	114	70 - 130	60 - 140	
1,1-Dichloroethane	101	109.0		ug/m3	108	70 - 131	60 - 141	
1,1-Dichloroethene	99.1	113.7		ug/m3	115	70 - 130	60 - 140	
1,1-Difluoroethane	67.5	66.89		ug/m3	99	60 - 130	48 - 142	
1,2,4-Trimethylbenzene	123	144.0		ug/m3	117	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	242	311.8		ug/m3	129	68 - 130	58 - 140	
1,2-Dibromoethane	192	226.9		ug/m3	118	70 - 130	60 - 140	
1,2-Dichlorobenzene	150	191.6		ug/m3	127	70 - 130	60 - 140	

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 570-75427/4
Matrix: Air

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,2-Dichloroethane	101	115.7		ug/m3	114	70 - 134	59 - 145	
1,2-Dichloropropane	116	123.7		ug/m3	107	70 - 130	60 - 140	
1,3,5-Trimethylbenzene	123	137.8		ug/m3	112	70 - 130	60 - 140	
1,3-Dichlorobenzene	150	196.6		ug/m3	131	69 - 132	59 - 143	
1,4-Dichlorobenzene	150	203.3	* me	ug/m3	135	67 - 132	56 - 143	ME
2-Butanone	73.7	77.06		ug/m3	105	64 - 143	51 - 156	
2-Hexanone	102	113.1		ug/m3	110	59 - 140	46 - 154	
4-Ethyltoluene	123	146.8		ug/m3	119	70 - 130	60 - 140	
4-Methyl-2-pentanone	102	112.1		ug/m3	109	64 - 133	53 - 145	
Acetone	59.4	64.98		ug/m3	109	69 - 146	56 - 159	
Benzene	79.9	92.99		ug/m3	116	70 - 133	60 - 144	
Benzyl chloride	129	164.9		ug/m3	127	63 - 130	52 - 141	
Bromodichloromethane	168	200.3		ug/m3	120	70 - 130	60 - 140	
Bromoform	258	322.5		ug/m3	125	70 - 132	60 - 142	
Bromomethane	97.1	118.1		ug/m3	122	70 - 137	59 - 148	
cis-1,2-Dichloroethene	99.1	110.9		ug/m3	112	70 - 130	60 - 140	
cis-1,3-Dichloropropene	113	129.9		ug/m3	114	70 - 130	60 - 140	
Carbon disulfide	77.9	88.93		ug/m3	114	70 - 150	57 - 163	
Carbon tetrachloride	157	192.4		ug/m3	122	70 - 130	60 - 140	
Chlorobenzene	115	129.2		ug/m3	112	70 - 130	60 - 140	
Chloroethane	66.0	75.91		ug/m3	115	70 - 137	59 - 148	
Chloroform	122	136.0		ug/m3	111	70 - 132	60 - 142	
Chloromethane	51.6	55.28		ug/m3	107	65 - 142	52 - 155	
Dibromochloromethane	213	252.1		ug/m3	118	70 - 130	60 - 140	
Dichlorodifluoromethane	124	150.4		ug/m3	122	70 - 142	58 - 154	
Dichlorotetrafluoroethane	175	206.4		ug/m3	118	70 - 137	59 - 148	
Ethylbenzene	109	121.2		ug/m3	112	70 - 130	60 - 140	
Hexachloro-1,3-butadiene	267	345.3		ug/m3	129	55 - 130	43 - 143	
Isopropanol	61.5	67.56		ug/m3	110	60 - 130	48 - 142	
Methylene Chloride	86.8	96.67		ug/m3	111	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	90.1	99.61		ug/m3	111	70 - 132	76 - 140	
n-Butylbenzene	137	155.4		ug/m3	113	70 - 130	60 - 140	
o-Xylene	109	125.0		ug/m3	115	70 - 130	60 - 140	
m,p-Xylene	217	250.3		ug/m3	115	70 - 130	60 - 140	
sec-Butylbenzene	137	146.0		ug/m3	106	70 - 130	60 - 140	
Styrene	106	119.9		ug/m3	113	70 - 130	60 - 140	
trans-1,2-Dichloroethene	99.1	112.2		ug/m3	113	70 - 140	58 - 152	
trans-1,3-Dichloropropene	113	136.7		ug/m3	121	70 - 130	60 - 140	
tert-Butylbenzene	137	148.9		ug/m3	108	70 - 130	60 - 140	
Tetrachloroethene	170	197.1		ug/m3	116	70 - 130	60 - 140	
Toluene	94.2	107.4		ug/m3	114	70 - 130	60 - 140	
Trichloroethene	134	153.8		ug/m3	114	70 - 130	60 - 140	
Trichlorofluoromethane	140	179.0		ug/m3	127	70 - 143	58 - 155	
Vinyl acetate	88.0	93.55		ug/m3	106	67 - 138	55 - 150	
Vinyl chloride	63.9	70.60		ug/m3	110	70 - 133	60 - 144	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
56	3	1

Marginal Exceedance (ME) Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

ME = Marginal Exceedance

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Air - GC/MS VOA

Analysis Batch: 75202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30828-1	SS-3	Total/NA	Air	TO-15	
570-30828-2	SS-5	Total/NA	Air	TO-15	
570-30828-3	SS-4	Total/NA	Air	TO-15	
570-30828-4	SS-1	Total/NA	Air	TO-15	
570-30828-5	SS-7	Total/NA	Air	TO-15	
570-30828-6	SS-2	Total/NA	Air	TO-15	
570-30828-7	SS-6	Total/NA	Air	TO-15	
MB 570-75202/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-75202/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-75202/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 75427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30828-2 - DL	SS-5	Total/NA	Air	TO-15	
570-30828-4 - DL	SS-1	Total/NA	Air	TO-15	
MB 570-75427/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-75427/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-75427/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Client Sample ID: SS-3
Date Collected: 06/11/20 16:15
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.17	400 mL	400 mL	75202	06/13/20 17:27	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client Sample ID: SS-5
Date Collected: 06/11/20 17:20
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.864	400 mL	400 mL	75202	06/13/20 18:15	LEW3	ECL 2
	Instrument ID: GCMSOOO									
Total/NA	Analysis	TO-15	DL	4.475	400 mL	400 mL	75427	06/15/20 18:26	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client Sample ID: SS-4
Date Collected: 06/11/20 18:05
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.325	400 mL	400 mL	75202	06/13/20 19:05	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client Sample ID: SS-1
Date Collected: 06/12/20 08:47
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.18	400 mL	400 mL	75202	06/13/20 19:56	LEW3	ECL 2
	Instrument ID: GCMSOOO									
Total/NA	Analysis	TO-15	DL	2.52	400 mL	400 mL	75427	06/15/20 19:15	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client Sample ID: SS-7
Date Collected: 06/12/20 09:36
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.26	400 mL	400 mL	75202	06/13/20 20:47	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client Sample ID: SS-2
Date Collected: 06/12/20 10:46
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.24	400 mL	400 mL	75202	06/13/20 21:41	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Client Sample ID: SS-6

Date Collected: 06/12/20 12:01
Date Received: 06/12/20 15:57

Lab Sample ID: 570-30828-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.19	400 mL	400 mL	75202	06/13/20 22:30	LEW3	ECL 2
	Instrument ID: GCMSOOO									

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ECL 2

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job ID: 570-30828-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-30828-1	SS-3	Air	06/11/20 16:15	06/12/20 15:57	Air Canister (1-Liter) #LC472
570-30828-2	SS-5	Air	06/11/20 17:20	06/12/20 15:57	Air Canister (1-Liter) #LC1136
570-30828-3	SS-4	Air	06/11/20 18:05	06/12/20 15:57	Air Canister (1-Liter) #LC1176
570-30828-4	SS-1	Air	06/12/20 08:47	06/12/20 15:57	Air Canister (1-Liter) #LC1039
570-30828-5	SS-7	Air	06/12/20 09:36	06/12/20 15:57	Air Canister (1-Liter) #LC1232
570-30828-6	SS-2	Air	06/12/20 10:46	06/12/20 15:57	Air Canister (1-Liter) #LC584
570-30828-7	SS-6	Air	06/12/20 12:01	06/12/20 15:57	Air Canister (1-Liter) #LC886

eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-30828 Chain of Custody

AIR CHAIN OF CUSTODY RECORD

DATE: 6/12/2020

PAGE: 1 OF 1 SB

LABORATORY CLIENT: GEOSYNTEC CONSULTANTS, INC.	CLIENT PROJECT NAME / NUMBER: PHRGUSIFN2/ 26713	P.O. NO.: 1000164468
ADDRESS: 211 E. OCEAN BLVD, SUITE 300	PROJECT ADDRESS: 1211 BADILLO ST.	LAB CONTACT OR QUOTE NO.:
CITY: LONG BEACH STATE: CA ZIP: 90802	CITY: WEST COVINA STATE: CA ZIP:	
TEL: – E-MAIL: MFaircloth@geosyntec.com msmall@geosyntec.com	PROJECT CONTACT:	SAMPLER(S): (PRINT) STEPH BONE

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ EDD ☐ UNITS _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: TO-15 (LEAD)

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment: Media ID #	Canister Size 6L or 1L	Flow Controller ID #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	TO-15 (LEAD)
1	SS-3	SS-3	SV	LC472	1L	A473	6/11/2020	1410	-29.19	6/11/2020	1415	-7.85	X
2	SS-5	SS-5	SV	LC1130	1L	A351	6/11/2020	1715	-28.98	6/11/2020	1720	-6.17	X
3	SS-4	SS-4	SV	LC1176	1L	A226	6/11/2020	1800	-29.58	6/11/2020	1805	-5.61	X
4	SS-1	SS-1	SV	LC1039	1L	A462	6/12/2020	0842	-28.98	6/12/2020	0847	-3.75	X
5	SS-7	SS-7	SV	LC1232	1L	A421	6/12/2020	0931	-29.02	6/12/2020	0936	-3.28	X
6	SS-2	SS-2	SV	LC584	1L	A467	6/12/2020	1041	-28.73	6/12/2020	1046	-4.78	X
7	SS-6	SS-6	SV	LC586	1L	A380	6/12/2020	1158	-29.01	6/12/2020	1201	-3.85	X

Relinquished by: (Signature) GEOSYNTEC STEPHANIE BONE	Received by: (Signature/Affiliation) Geosyntec Eric Garcia	Date: 6/12/20	Time: 1430
Relinquished by: (Signature) Geosyntec Eric Garcia	Received by: (Signature/Affiliation) ECI	Date: 6-12-2020	Time: 15:57
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-30828-1

Login Number: 30828
List Number: 1
Creator: Cruise, Noel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Summa Canister Dilution Worksheet

Client: Geosyntec Consultants, Inc.
Project/Site: PNR0651FW2/267B

Job No.: 570-30828-1

Lab Sample ID	Canister Volume (L)	Presampling Pressure ("Hg)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
570-30828-1	1	-29.5	-4.1	0.86	0.86	-2.01373	0.86	0.86		1.00	1.00	Air Mg-4	06/12/20 18:46	S8WJ
570-30828-1	1	-29.5	-4.3	0.86	0.86	0	1.00	1.00		1.17	1.17	AIR MG-4	06/13/20 14:34	V2NZ
570-30828-2	1	-29.5	-7.3	0.76	0.76	-3.58543	0.76	0.76		1.00	1.00	Air Mg-4	06/12/20 18:46	S8WJ
570-30828-2	1	-29.5	-7.5	0.75	0.75	5.0	1.34	1.34		1.79	1.79	AIR MG-4	06/13/20 14:33	V2NZ
570-30828-3	1	-29.5	-6.6	0.78	0.78	-3.24162	0.78	0.78		1.00	1.00	Air Mg-4	06/12/20 18:47	S8WJ
570-30828-3	1	-29.5	-6.8	0.77	0.77	5.0	1.34	1.34		1.73	1.73	AIR MG-4	06/13/20 14:30	V2NZ
570-30828-4	1	-29.5	-4.3	0.86	0.86	-2.11196	0.86	0.86		1.00	1.00	Air Mg-4	06/12/20 18:47	S8WJ
570-30828-4	1	-29.5	-4.5	0.85	0.85	0	1.00	1.00		1.18	1.18	AIR MG-4	06/13/20 14:35	V2NZ
570-30828-4	1	-29.5	-11.2	0.63	0.63	5	1.34	1.34		2.14	2.52	AIR MG-4	06/15/20 14:30	LEW3
570-30828-5	1	-29.5	-6.0	0.80	0.80	-2.94692	0.80	0.80		1.00	1.00	Air Mg-4	06/12/20 18:47	S8WJ
570-30828-5	1	-29.5	-6.2	0.79	0.79	0	1.00	1.00		1.26	1.26	AIR MG-4	06/13/20 14:33	V2NZ
570-30828-6	1	-29.5	-5.6	0.81	0.81	-2.75046	0.81	0.81		1.00	1.00	Air Mg-4	06/12/20 18:47	S8WJ
570-30828-6	1	-29.5	-5.8	0.81	0.81	0	1.00	1.00		1.24	1.24	AIR MG-4	06/13/20 14:32	V2NZ
570-30828-7	1	-29.5	-4.6	0.85	0.85	-2.25931	0.85	0.85		1.00	1.00	Air Mg-4	06/12/20 18:48	S8WJ
570-30828-7	1	-29.5	-4.8	0.84	0.84	0	1.00	1.00		1.19	1.19	AIR MG-4	06/13/20 14:34	V2NZ

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Eurofins Calscience

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-30847-1
Client Project/Site: PN20651FW2/267B

For:
Geosyntec Consultants, Inc.
520 Pike Street
Suite 2600
Seattle, Washington 98101

Attn: Molly Taptich

Authorized for release by:
6/16/2020 3:12:11 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
Surrogate Summary 16
QC Sample Results 17
QC Association Summary 20
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27
Air Canister Dilution 28

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-30847-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-30847-1

Comments
No additional comments.

Receipt
The samples were received on 6/12/2020 7:10 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Air Toxics
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Client Sample ID: IA-1 — Lab Sample ID: 570-30847-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		0.19		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.43		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.47		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroethane	0.082		0.066		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.19		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.97		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.33		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.44		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.36		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	0.87		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	1.3		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	2.0		0.14		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: IA-2 — Lab Sample ID: 570-30847-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,2,4-Trimethylbenzene	0.32		0.25		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.57		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.46		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.18		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.78		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.71		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.38		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.64		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	1.7		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	2.4		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	2.2		0.14		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: IA-3 — Lab Sample ID: 570-30847-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,1-Difluoroethane	0.72		0.68		ug/m3	1		TO-15 SIM	Total/NA
1,2,4-Trimethylbenzene	0.46		0.25		ug/m3	1		TO-15 SIM	Total/NA
1,2-Dichloroethane	0.11		0.10		ug/m3	1		TO-15 SIM	Total/NA
1,3,5-Trimethylbenzene	0.15		0.12		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.63		0.080		ug/m3	1		TO-15 SIM	Total/NA
Bromodichloromethane	0.27		0.17		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.51		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroethane	0.090		0.066		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.50		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	1.2		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.1		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.69		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.39		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.65		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	1.8		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	2.8		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	2.3		0.14		ug/m3	1		TO-15 SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Client Sample ID: IA-4 — Lab Sample ID: 570-30847-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,2,4-Trimethylbenzene	0.34		0.25		ug/m3	1		TO-15 SIM	Total/NA
1,2-Dichloroethane	0.10		0.10		ug/m3	1		TO-15 SIM	Total/NA
1,3,5-Trimethylbenzene	0.12		0.12		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.50		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.48		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.21		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.75		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.80		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.45		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	1.6		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	2.8		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	2.3		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	5.2		0.14		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: IA-5 — Lab Sample ID: 570-30847-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,2,4-Trimethylbenzene	0.25		0.25		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.49		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.48		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.17		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.70		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.3		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.38		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.45		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.38		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	0.91		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	1.6		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	2.4		0.14		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: IA-6 — Lab Sample ID: 570-30847-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,2,4-Trimethylbenzene	0.35		0.25		ug/m3	1		TO-15 SIM	Total/NA
1,2-Dichloroethane	0.11		0.10		ug/m3	1		TO-15 SIM	Total/NA
1,3,5-Trimethylbenzene	0.12		0.12		ug/m3	1		TO-15 SIM	Total/NA
Benzene	1.0		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.46		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroethane	0.36		0.066		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.31		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	1.0		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	1.1		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.52		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.83		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	2.0		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	4.5		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	1.9		0.14		ug/m3	1		TO-15 SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Client Sample ID: IA-7 — Lab Sample ID: 570-30847-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		0.19		ug/m3	1		TO-15 SIM	Total/NA
1,1-Difluoroethane	1.2		0.68		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.41		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.46		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroethane	0.068		0.066		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.15		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.72		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.27		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.44		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.27		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	0.66		0.22		ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.28		0.17		ug/m3	1		TO-15 SIM	Total/NA
Toluene	1.2		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.13		0.13		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	1.3		0.14		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: OA — Lab Sample ID: 570-30847-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		0.19		ug/m3	1		TO-15 SIM	Total/NA
Benzene	0.37		0.080		ug/m3	1		TO-15 SIM	Total/NA
Carbon tetrachloride	0.45		0.31		ug/m3	1		TO-15 SIM	Total/NA
Chloroethane	0.12		0.066		ug/m3	1		TO-15 SIM	Total/NA
Chloroform	0.13		0.12		ug/m3	1		TO-15 SIM	Total/NA
Chloromethane	0.74		0.052		ug/m3	1		TO-15 SIM	Total/NA
Dichlorodifluoromethane	2.2		0.12		ug/m3	1		TO-15 SIM	Total/NA
Ethylbenzene	0.19		0.11		ug/m3	1		TO-15 SIM	Total/NA
Methylene Chloride	0.44		0.17		ug/m3	1		TO-15 SIM	Total/NA
o-Xylene	0.18		0.11		ug/m3	1		TO-15 SIM	Total/NA
m,p-Xylene	0.42		0.22		ug/m3	1		TO-15 SIM	Total/NA
Toluene	0.90		0.19		ug/m3	1		TO-15 SIM	Total/NA
Trichlorofluoromethane	1.2		0.14		ug/m3	1		TO-15 SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Client Sample ID: IA-1
Date Collected: 06/12/20 16:50
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 07:55	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 07:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.49**		0.19		ug/m3			06/14/20 07:55	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 07:55	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 07:55	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:55	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 07:55	1
1,2,4-Trimethylbenzene	ND		0.25		ug/m3			06/14/20 07:55	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 07:55	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 07:55	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 07:55	1
Benzene	**0.43**		0.080		ug/m3			06/14/20 07:55	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 07:55	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:55	1
Carbon tetrachloride	**0.47**		0.31		ug/m3			06/14/20 07:55	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 07:55	1
Chloroethane	**0.082**		0.066		ug/m3			06/14/20 07:55	1
Chloroform	**0.19**		0.12		ug/m3			06/14/20 07:55	1
Chloromethane	**0.97**		0.052		ug/m3			06/14/20 07:55	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 07:55	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 07:55	1
Ethylbenzene	**0.33**		0.11		ug/m3			06/14/20 07:55	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 07:55	1
Methylene Chloride	**0.44**		0.17		ug/m3			06/14/20 07:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 07:55	1
o-Xylene	**0.36**		0.11		ug/m3			06/14/20 07:55	1
m,p-Xylene	**0.87**		0.22		ug/m3			06/14/20 07:55	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:55	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 07:55	1
Toluene	**1.3**		0.19		ug/m3			06/14/20 07:55	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 07:55	1
Trichlorofluoromethane	**2.0**		0.14		ug/m3			06/14/20 07:55	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*37 - 163*		*06/14/20 07:55*	*1*
4-Bromofluorobenzene (Surr)	*93*		*45 - 153*		*06/14/20 07:55*	*1*
Toluene-d8 (Surr)	*103*		*73 - 121*		*06/14/20 07:55*	*1*

Client Sample ID: IA-2
Date Collected: 06/12/20 16:02
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 08:46	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 08:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**		0.19		ug/m3			06/14/20 08:46	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-2
Date Collected: 06/12/20 16:02
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 08:46	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 08:46	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 08:46	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 08:46	1
1,2,4-Trimethylbenzene	**0.32**		0.25		ug/m3			06/14/20 08:46	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 08:46	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 08:46	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 08:46	1
Benzene	**0.57**		0.080		ug/m3			06/14/20 08:46	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 08:46	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 08:46	1
Carbon tetrachloride	**0.46**		0.31		ug/m3			06/14/20 08:46	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 08:46	1
Chloroethane	ND		0.066		ug/m3			06/14/20 08:46	1
Chloroform	**0.18**		0.12		ug/m3			06/14/20 08:46	1
Chloromethane	**0.78**		0.052		ug/m3			06/14/20 08:46	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 08:46	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 08:46	1
Ethylbenzene	**0.71**		0.11		ug/m3			06/14/20 08:46	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 08:46	1
Methylene Chloride	**0.38**		0.17		ug/m3			06/14/20 08:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 08:46	1
o-Xylene	**0.64**		0.11		ug/m3			06/14/20 08:46	1
m,p-Xylene	**1.7**		0.22		ug/m3			06/14/20 08:46	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 08:46	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 08:46	1
Toluene	**2.4**		0.19		ug/m3			06/14/20 08:46	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 08:46	1
Trichlorofluoromethane	**2.2**		0.14		ug/m3			06/14/20 08:46	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*37 - 163*		*06/14/20 08:46*	*1*
4-Bromofluorobenzene (Surr)	*93*		*45 - 153*		*06/14/20 08:46*	*1*
Toluene-d8 (Surr)	*102*		*73 - 121*		*06/14/20 08:46*	*1*

Client Sample ID: IA-3
Date Collected: 06/12/20 16:10
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-3
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 09:40	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 09:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**		0.19		ug/m3			06/14/20 09:40	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 09:40	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 09:40	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 09:40	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-3
Date Collected: 06/12/20 16:10
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-3
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Difluoroethane	**0.72**		0.68		ug/m3			06/14/20 09:40	1
1,2,4-Trimethylbenzene	**0.46**		0.25		ug/m3			06/14/20 09:40	1
1,2-Dichloroethane	**0.11**		0.10		ug/m3			06/14/20 09:40	1
1,3,5-Trimethylbenzene	**0.15**		0.12		ug/m3			06/14/20 09:40	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 09:40	1
Benzene	**0.63**		0.080		ug/m3			06/14/20 09:40	1
Bromodichloromethane	**0.27**		0.17		ug/m3			06/14/20 09:40	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 09:40	1
Carbon tetrachloride	**0.51**		0.31		ug/m3			06/14/20 09:40	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 09:40	1
Chloroethane	**0.090**		0.066		ug/m3			06/14/20 09:40	1
Chloroform	**0.50**		0.12		ug/m3			06/14/20 09:40	1
Chloromethane	**1.2**		0.052		ug/m3			06/14/20 09:40	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 09:40	1
Dichlorodifluoromethane	**2.1**		0.12		ug/m3			06/14/20 09:40	1
Ethylbenzene	**0.69**		0.11		ug/m3			06/14/20 09:40	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 09:40	1
Methylene Chloride	**0.39**		0.17		ug/m3			06/14/20 09:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 09:40	1
o-Xylene	**0.65**		0.11		ug/m3			06/14/20 09:40	1
m,p-Xylene	**1.8**		0.22		ug/m3			06/14/20 09:40	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 09:40	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 09:40	1
Toluene	**2.8**		0.19		ug/m3			06/14/20 09:40	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 09:40	1
Trichlorofluoromethane	**2.3**		0.14		ug/m3			06/14/20 09:40	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*37 - 163*		*06/14/20 09:40*	*1*
4-Bromofluorobenzene (Surr)	*93*		*45 - 153*		*06/14/20 09:40*	*1*
Toluene-d8 (Surr)	*106*		*73 - 121*		*06/14/20 09:40*	*1*

Client Sample ID: IA-4
Date Collected: 06/12/20 15:43
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-4
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 10:37	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 10:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**		0.19		ug/m3			06/14/20 10:37	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 10:37	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 10:37	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 10:37	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 10:37	1
1,2,4-Trimethylbenzene	**0.34**		0.25		ug/m3			06/14/20 10:37	1
1,2-Dichloroethane	**0.10**		0.10		ug/m3			06/14/20 10:37	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-4
Date Collected: 06/12/20 15:43
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-4
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**0.12**		0.12		ug/m3			06/14/20 10:37	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 10:37	1
Benzene	**0.50**		0.080		ug/m3			06/14/20 10:37	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 10:37	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 10:37	1
Carbon tetrachloride	**0.48**		0.31		ug/m3			06/14/20 10:37	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 10:37	1
Chloroethane	ND		0.066		ug/m3			06/14/20 10:37	1
Chloroform	**0.21**		0.12		ug/m3			06/14/20 10:37	1
Chloromethane	**0.75**		0.052		ug/m3			06/14/20 10:37	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 10:37	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 10:37	1
Ethylbenzene	**0.80**		0.11		ug/m3			06/14/20 10:37	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 10:37	1
Methylene Chloride	**0.45**		0.17		ug/m3			06/14/20 10:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 10:37	1
o-Xylene	**1.6**		0.11		ug/m3			06/14/20 10:37	1
m,p-Xylene	**2.8**		0.22		ug/m3			06/14/20 10:37	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 10:37	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 10:37	1
Toluene	**2.3**		0.19		ug/m3			06/14/20 10:37	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 10:37	1
Trichlorofluoromethane	**5.2**		0.14		ug/m3			06/14/20 10:37	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*37 - 163*		*06/14/20 10:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*45 - 153*		*06/14/20 10:37*	*1*
Toluene-d8 (Surr)	*108*		*73 - 121*		*06/14/20 10:37*	*1*

Client Sample ID: IA-5
Date Collected: 06/12/20 18:00
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 11:52	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 11:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**		0.19		ug/m3			06/14/20 11:52	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 11:52	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 11:52	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 11:52	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 11:52	1
1,2,4-Trimethylbenzene	**0.25**		0.25		ug/m3			06/14/20 11:52	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 11:52	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 11:52	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 11:52	1
Benzene	**0.49**		0.080		ug/m3			06/14/20 11:52	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-5
Date Collected: 06/12/20 18:00
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 11:52	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 11:52	1
Carbon tetrachloride	**0.48**		0.31		ug/m3			06/14/20 11:52	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 11:52	1
Chloroethane	ND		0.066		ug/m3			06/14/20 11:52	1
Chloroform	**0.17**		0.12		ug/m3			06/14/20 11:52	1
Chloromethane	**0.70**		0.052		ug/m3			06/14/20 11:52	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 11:52	1
Dichlorodifluoromethane	**2.3**		0.12		ug/m3			06/14/20 11:52	1
Ethylbenzene	**0.38**		0.11		ug/m3			06/14/20 11:52	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 11:52	1
Methylene Chloride	**0.45**		0.17		ug/m3			06/14/20 11:52	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 11:52	1
o-Xylene	**0.38**		0.11		ug/m3			06/14/20 11:52	1
m,p-Xylene	**0.91**		0.22		ug/m3			06/14/20 11:52	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 11:52	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 11:52	1
Toluene	**1.6**		0.19		ug/m3			06/14/20 11:52	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 11:52	1
Trichlorofluoromethane	**2.4**		0.14		ug/m3			06/14/20 11:52	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*37 - 163*		*06/14/20 11:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*45 - 153*		*06/14/20 11:52*	*1*
Toluene-d8 (Surr)	*108*		*73 - 121*		*06/14/20 11:52*	*1*

Client Sample ID: IA-6
Date Collected: 06/12/20 15:50
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 12:42	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.49**		0.19		ug/m3			06/14/20 12:42	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 12:42	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 12:42	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 12:42	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 12:42	1
1,2,4-Trimethylbenzene	**0.35**		0.25		ug/m3			06/14/20 12:42	1
1,2-Dichloroethane	**0.11**		0.10		ug/m3			06/14/20 12:42	1
1,3,5-Trimethylbenzene	**0.12**		0.12		ug/m3			06/14/20 12:42	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 12:42	1
Benzene	**1.0**		0.080		ug/m3			06/14/20 12:42	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 12:42	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 12:42	1
Carbon tetrachloride	**0.46**		0.31		ug/m3			06/14/20 12:42	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-6
Date Collected: 06/12/20 15:50
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.23		ug/m3			06/14/20 12:42	1
Chloroethane	**0.36**		0.066		ug/m3			06/14/20 12:42	1
Chloroform	**0.31**		0.12		ug/m3			06/14/20 12:42	1
Chloromethane	**1.0**		0.052		ug/m3			06/14/20 12:42	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 12:42	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 12:42	1
Ethylbenzene	**1.1**		0.11		ug/m3			06/14/20 12:42	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 12:42	1
Methylene Chloride	**0.52**		0.17		ug/m3			06/14/20 12:42	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 12:42	1
o-Xylene	**0.83**		0.11		ug/m3			06/14/20 12:42	1
m,p-Xylene	**2.0**		0.22		ug/m3			06/14/20 12:42	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 12:42	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 12:42	1
Toluene	**4.5**		0.19		ug/m3			06/14/20 12:42	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 12:42	1
Trichlorofluoromethane	**1.9**		0.14		ug/m3			06/14/20 12:42	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*37 - 163*		*06/14/20 12:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*45 - 153*		*06/14/20 12:42*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*		*06/14/20 12:42*	*1*

Client Sample ID: IA-7
Date Collected: 06/12/20 17:20
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 13:39	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**		0.19		ug/m3			06/14/20 13:39	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 13:39	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 13:39	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 13:39	1
1,1-Difluoroethane	**1.2**		0.68		ug/m3			06/14/20 13:39	1
1,2,4-Trimethylbenzene	ND		0.25		ug/m3			06/14/20 13:39	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 13:39	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 13:39	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 13:39	1
Benzene	**0.41**		0.080		ug/m3			06/14/20 13:39	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 13:39	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 13:39	1
Carbon tetrachloride	**0.46**		0.31		ug/m3			06/14/20 13:39	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 13:39	1
Chloroethane	**0.068**		0.066		ug/m3			06/14/20 13:39	1
Chloroform	**0.15**		0.12		ug/m3			06/14/20 13:39	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: IA-7
Date Collected: 06/12/20 17:20
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**0.72**		0.052		ug/m3			06/14/20 13:39	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 13:39	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 13:39	1
Ethylbenzene	**0.27**		0.11		ug/m3			06/14/20 13:39	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 13:39	1
Methylene Chloride	**0.44**		0.17		ug/m3			06/14/20 13:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 13:39	1
o-Xylene	**0.27**		0.11		ug/m3			06/14/20 13:39	1
m,p-Xylene	**0.66**		0.22		ug/m3			06/14/20 13:39	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 13:39	1
Tetrachloroethene	**0.28**		0.17		ug/m3			06/14/20 13:39	1
Toluene	**1.2**		0.19		ug/m3			06/14/20 13:39	1
Trichloroethene	**0.13**		0.13		ug/m3			06/14/20 13:39	1
Trichlorofluoromethane	**1.3**		0.14		ug/m3			06/14/20 13:39	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*37 - 163*		*06/14/20 13:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*45 - 153*		*06/14/20 13:39*	*1*
Toluene-d8 (Surr)	*107*		*73 - 121*		*06/14/20 13:39*	*1*

Client Sample ID: OA
Date Collected: 06/12/20 16:35
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-8
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**		0.19		ug/m3			06/14/20 14:39	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 14:39	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 14:39	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 14:39	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 14:39	1
1,2,4-Trimethylbenzene	ND		0.25		ug/m3			06/14/20 14:39	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 14:39	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 14:39	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 14:39	1
Benzene	**0.37**		0.080		ug/m3			06/14/20 14:39	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 14:39	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 14:39	1
Carbon tetrachloride	**0.45**		0.31		ug/m3			06/14/20 14:39	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 14:39	1
Chloroethane	**0.12**		0.066		ug/m3			06/14/20 14:39	1
Chloroform	**0.13**		0.12		ug/m3			06/14/20 14:39	1
Chloromethane	**0.74**		0.052		ug/m3			06/14/20 14:39	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 14:39	1
Dichlorodifluoromethane	**2.2**		0.12		ug/m3			06/14/20 14:39	1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Client Sample ID: OA
Date Collected: 06/12/20 16:35
Date Received: 06/12/20 19:10
Sample Container: Summa Canister 6L

Lab Sample ID: 570-30847-8
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.19**		0.11		ug/m3			06/14/20 14:39	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 14:39	1
Methylene Chloride	**0.44**		0.17		ug/m3			06/14/20 14:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 14:39	1
o-Xylene	**0.18**		0.11		ug/m3			06/14/20 14:39	1
m,p-Xylene	**0.42**		0.22		ug/m3			06/14/20 14:39	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 14:39	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 14:39	1
Toluene	**0.90**		0.19		ug/m3			06/14/20 14:39	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 14:39	1
Trichlorofluoromethane	**1.2**		0.14		ug/m3			06/14/20 14:39	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*37 - 163*		*06/14/20 14:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*45 - 153*		*06/14/20 14:39*	*1*
Toluene-d8 (Surr)	*111*		*73 - 121*		*06/14/20 14:39*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(37-163)	(45-153)	(73-121)
570-30847-1	IA-1	96	93	103
570-30847-2	IA-2	96	93	102
570-30847-3	IA-3	93	93	106
570-30847-4	IA-4	97	100	108
570-30847-5	IA-5	99	97	108
570-30847-6	IA-6	94	100	100
570-30847-7	IA-7	97	95	107
570-30847-8	OA	96	95	111
LCS 570-75471/5	Lab Control Sample	104	106	97
LCSD 570-75471/6	Lab Control Sample Dup	104	103	97
MB 570-75471/8	Method Blank	100	85	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 570-75471/8
Matrix: Air
Analysis Batch: 75471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		ug/m3			06/14/20 07:03	1
1,1,2,2-Tetrachloroethane	ND		0.17		ug/m3			06/14/20 07:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.19		ug/m3			06/14/20 07:03	1
1,1,2-Trichloroethane	ND		0.14		ug/m3			06/14/20 07:03	1
1,1-Dichloroethane	ND		0.10		ug/m3			06/14/20 07:03	1
1,1-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:03	1
1,1-Difluoroethane	ND		0.68		ug/m3			06/14/20 07:03	1
1,2,4-Trimethylbenzene	ND		0.25		ug/m3			06/14/20 07:03	1
1,2-Dichloroethane	ND		0.10		ug/m3			06/14/20 07:03	1
1,3,5-Trimethylbenzene	ND		0.12		ug/m3			06/14/20 07:03	1
4-Ethyltoluene	ND		0.25		ug/m3			06/14/20 07:03	1
Benzene	ND		0.080		ug/m3			06/14/20 07:03	1
Bromodichloromethane	ND		0.17		ug/m3			06/14/20 07:03	1
cis-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:03	1
Carbon tetrachloride	ND		0.31		ug/m3			06/14/20 07:03	1
Chlorobenzene	ND		0.23		ug/m3			06/14/20 07:03	1
Chloroethane	ND		0.066		ug/m3			06/14/20 07:03	1
Chloroform	ND		0.12		ug/m3			06/14/20 07:03	1
Chloromethane	ND		0.052		ug/m3			06/14/20 07:03	1
Dibromochloromethane	ND		0.21		ug/m3			06/14/20 07:03	1
Dichlorodifluoromethane	ND		0.12		ug/m3			06/14/20 07:03	1
Ethylbenzene	ND		0.11		ug/m3			06/14/20 07:03	1
Hexachloro-1,3-butadiene	ND		1.1		ug/m3			06/14/20 07:03	1
Methylene Chloride	ND		0.17		ug/m3			06/14/20 07:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.090		ug/m3			06/14/20 07:03	1
o-Xylene	ND		0.11		ug/m3			06/14/20 07:03	1
m,p-Xylene	ND		0.22		ug/m3			06/14/20 07:03	1
trans-1,2-Dichloroethene	ND		0.099		ug/m3			06/14/20 07:03	1
Tetrachloroethene	ND		0.17		ug/m3			06/14/20 07:03	1
Toluene	ND		0.19		ug/m3			06/14/20 07:03	1
Trichloroethene	ND		0.13		ug/m3			06/14/20 07:03	1
Trichlorofluoromethane	ND		0.14		ug/m3			06/14/20 07:03	1
Vinyl chloride	ND		0.13		ug/m3			06/14/20 07:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*37 - 163*		*06/14/20 07:03*	*1*
4-Bromofluorobenzene (Surr)	*85*		*45 - 153*		*06/14/20 07:03*	*1*
Toluene-d8 (Surr)	*97*		*73 - 121*		*06/14/20 07:03*	*1*

Lab Sample ID: LCS 570-75471/5
Matrix: Air
Analysis Batch: 75471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			2.73	2.789		ug/m3		102	50 - 150		
1,1,2,2-Tetrachloroethane			3.43	3.400		ug/m3		99	50 - 150		
1,1,2-Trichloro-1,2,2-trifluoroethane			3.83	3.890		ug/m3		102	50 - 150		

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 570-75471/5
Matrix: Air
Analysis Batch: 75471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	2.73	2.738		ug/m3		100	27 - 171
1,1-Dichloroethane	2.02	2.006		ug/m3		99	50 - 150
1,1-Dichloroethene	1.98	1.910		ug/m3		96	50 - 150
1,1-Difluoroethane	1.35	1.149		ug/m3		85	50 - 150
1,2,4-Trimethylbenzene	2.46	2.174		ug/m3		88	50 - 150
1,2-Dichloroethane	2.02	2.112		ug/m3		104	28 - 166
1,3,5-Trimethylbenzene	2.46	2.256		ug/m3		92	50 - 150
4-Ethyltoluene	2.46	2.228		ug/m3		91	50 - 150
Benzene	1.60	1.700		ug/m3		106	27 - 153
Bromodichloromethane	3.35	3.513		ug/m3		105	50 - 150
cis-1,2-Dichloroethene	1.98	1.910		ug/m3		96	35 - 165
Carbon tetrachloride	3.15	3.160		ug/m3		100	7 - 187
Chlorobenzene	2.30	2.162		ug/m3		94	50 - 150
Chloroethane	1.32	1.344		ug/m3		102	50 - 150
Chloroform	2.44	2.447		ug/m3		100	50 - 150
Chloromethane	1.03	0.9981		ug/m3		97	50 - 150
Dibromochloromethane	4.26	4.232		ug/m3		99	50 - 150
Dichlorodifluoromethane	2.47	2.512		ug/m3		102	50 - 150
Ethylbenzene	2.17	1.960		ug/m3		90	27 - 153
Hexachloro-1,3-butadiene	5.33	5.438		ug/m3		102	50 - 150
Methylene Chloride	1.74	1.654		ug/m3		95	50 - 150
Methyl-t-Butyl Ether (MTBE)	1.80	1.691		ug/m3		94	50 - 150
o-Xylene	2.17	2.056		ug/m3		95	22 - 160
m,p-Xylene	4.34	4.061		ug/m3		94	21 - 165
trans-1,2-Dichloroethene	1.98	1.959		ug/m3		99	50 - 150
Tetrachloroethene	3.39	3.244		ug/m3		96	34 - 154
Toluene	1.88	1.884		ug/m3		100	28 - 154
Trichloroethene	2.69	2.710		ug/m3		101	43 - 139
Trichlorofluoromethane	2.81	2.913		ug/m3		104	50 - 150
Vinyl chloride	1.28	1.247		ug/m3		98	44 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*37 - 163*
4-Bromofluorobenzene (Surr)	*106*		*45 - 153*
Toluene-d8 (Surr)	*97*		*73 - 121*

Lab Sample ID: LCSD 570-75471/6
Matrix: Air
Analysis Batch: 75471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2.73	2.787		ug/m3		102	50 - 150	0	30
1,1,2,2-Tetrachloroethane	3.43	3.393		ug/m3		99	50 - 150	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	3.83	3.886		ug/m3		101	50 - 150	0	30
1,1,2-Trichloroethane	2.73	2.778		ug/m3		102	27 - 171	1	38
1,1-Dichloroethane	2.02	2.011		ug/m3		99	50 - 150	0	30

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCSD 570-75471/6
Matrix: Air
Analysis Batch: 75471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			1.98	1.838		ug/m3		93	50 - 150	4	30
1,1-Difluoroethane			1.35	1.102		ug/m3		82	50 - 150	4	30
1,2,4-Trimethylbenzene			2.46	2.049		ug/m3		83	50 - 150	6	30
1,2-Dichloroethane			2.02	2.149		ug/m3		106	28 - 166	2	40
1,3,5-Trimethylbenzene			2.46	2.127		ug/m3		87	50 - 150	6	30
4-Ethyltoluene			2.46	2.111		ug/m3		86	50 - 150	5	30
Benzene			1.60	1.719		ug/m3		108	27 - 153	1	34
Bromodichloromethane			3.35	3.553		ug/m3		106	50 - 150	1	30
cis-1,2-Dichloroethene			1.98	1.914		ug/m3		97	35 - 165	0	35
Carbon tetrachloride			3.15	3.159		ug/m3		100	7 - 187	0	31
Chlorobenzene			2.30	2.191		ug/m3		95	50 - 150	1	30
Chloroethane			1.32	1.301		ug/m3		99	50 - 150	3	30
Chloroform			2.44	2.454		ug/m3		101	50 - 150	0	30
Chloromethane			1.03	0.9846		ug/m3		95	50 - 150	1	30
Dibromochloromethane			4.26	4.305		ug/m3		101	50 - 150	2	30
Dichlorodifluoromethane			2.47	2.470		ug/m3		100	50 - 150	2	30
Ethylbenzene			2.17	1.952		ug/m3		90	27 - 153	0	46
Hexachloro-1,3-butadiene			5.33	4.739		ug/m3		89	50 - 150	14	30
Methylene Chloride			1.74	1.570		ug/m3		90	50 - 150	5	30
Methyl-t-Butyl Ether (MTBE)			1.80	1.681		ug/m3		93	50 - 150	1	30
o-Xylene			2.17	2.049		ug/m3		94	22 - 160	0	48
m,p-Xylene			4.34	4.055		ug/m3		93	21 - 165	0	51
trans-1,2-Dichloroethene			1.98	1.947		ug/m3		98	50 - 150	1	30
Tetrachloroethene			3.39	3.294		ug/m3		97	34 - 154	2	33
Toluene			1.88	1.919		ug/m3		102	28 - 154	2	42
Trichloroethene			2.69	2.707		ug/m3		101	43 - 139	0	31
Trichlorofluoromethane			2.81	2.811		ug/m3		100	50 - 150	4	30
Vinyl chloride			1.28	1.237		ug/m3		97	44 - 140	1	33

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*37 - 163*
4-Bromofluorobenzene (Surr)	*103*		*45 - 153*
Toluene-d8 (Surr)	*97*		*73 - 121*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Air - GC/MS VOA

Analysis Batch: 75471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-30847-1	IA-1	Total/NA	Air	TO-15 SIM	
570-30847-2	IA-2	Total/NA	Air	TO-15 SIM	
570-30847-3	IA-3	Total/NA	Air	TO-15 SIM	
570-30847-4	IA-4	Total/NA	Air	TO-15 SIM	
570-30847-5	IA-5	Total/NA	Air	TO-15 SIM	
570-30847-6	IA-6	Total/NA	Air	TO-15 SIM	
570-30847-7	IA-7	Total/NA	Air	TO-15 SIM	
570-30847-8	OA	Total/NA	Air	TO-15 SIM	
MB 570-75471/8	Method Blank	Total/NA	Air	TO-15 SIM	
LCS 570-75471/5	Lab Control Sample	Total/NA	Air	TO-15 SIM	
LCSD 570-75471/6	Lab Control Sample Dup	Total/NA	Air	TO-15 SIM	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Client Sample ID: IA-1
Date Collected: 06/12/20 16:50
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 07:55	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: IA-2
Date Collected: 06/12/20 16:02
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 08:46	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: IA-3
Date Collected: 06/12/20 16:10
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 09:40	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: IA-4
Date Collected: 06/12/20 15:43
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 10:37	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: IA-5
Date Collected: 06/12/20 18:00
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 11:52	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: IA-6
Date Collected: 06/12/20 15:50
Date Received: 06/12/20 19:10

Lab Sample ID: 570-30847-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 12:42	UJHY	ECL 2
	Instrument ID: GCMSYY									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Client Sample ID: IA-7

Lab Sample ID: 570-30847-7

Date Collected: 06/12/20 17:20

Matrix: Air

Date Received: 06/12/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 13:39	UJHY	ECL 2
	Instrument ID: GCMSYY									

Client Sample ID: OA

Lab Sample ID: 570-30847-8

Date Collected: 06/12/20 16:35

Matrix: Air

Date Received: 06/12/20 19:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	250 mL	250 mL	75471	06/14/20 14:39	UJHY	ECL 2
	Instrument ID: GCMSYY									

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Method	Method Description	Protocol	Laboratory
TO-15 SIM	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA-21	ECL 2

Protocol References:

EPA-21 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", Second Edition, EPA/625/R-96/010B, January 1999

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job ID: 570-30847-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-30847-1	IA-1	Air	06/12/20 16:50	06/12/20 19:10	Air Canister (6-Liter) #D184
570-30847-2	IA-2	Air	06/12/20 16:02	06/12/20 19:10	Air Canister (6-Liter) #D758
570-30847-3	IA-3	Air	06/12/20 16:10	06/12/20 19:10	Air Canister (6-Liter) #D526
570-30847-4	IA-4	Air	06/12/20 15:43	06/12/20 19:10	Air Canister (6-Liter) #D503
570-30847-5	IA-5	Air	06/12/20 18:00	06/12/20 19:10	Air Canister (6-Liter) #D575
570-30847-6	IA-6	Air	06/12/20 15:50	06/12/20 19:10	Air Canister (6-Liter) #D891
570-30847-7	IA-7	Air	06/12/20 17:20	06/12/20 19:10	Air Canister (6-Liter) #D924
570-30847-8	OA	Air	06/12/20 16:35	06/12/20 19:10	Air Canister (6-Liter) #D863

Loc: 570

30847

eurofins | Calscience

570-30847 Chain of Custody

AIR CHAIN OF CUSTODY RECORD

DATE: 6/12/2020

PAGE: 1 OF 1 SB

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: GEOSYNTEC CONSULTANTS	CLIENT PROJECT NAME / NUMBER: PHZOUSIFW2/ 26713	P.O. NO.: 10001640 8
ADDRESS: 211 E. OCEAN BLVD	PROJECT ADDRESS: 1211 BADILLO ST.	LAB CONTACT OR QUOTE NO.:
CITY: LONG BEACH, CA STATE: CA ZIP: 90802	CITY: WEST COVINA STATE: CA ZIP:	
TEL: E-MAIL: mtantichet@geosyntec.com msmaile@geosyntec.com	PROJECT CONTACT: MULLTAPTICH	SAMPLER(S): (PRINT) STEPH BONE

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD ☐ EDD ☐ UNITS

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: TO-15 SIM

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment: Media ID #	Canister Size 6L or 1L	Flow Controller ID #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	TO-15 SIM
1	IA-1	IA-1	I	D184	6L	FC202	6/12/2020	0853	-31	6/12/2020	1450	-4.71	X
2	IA-2	IA-2	I	D758		FC362		0757	-30		1602	-3.56	X
3	IA-3	IA-3	I	D526		FC487		0754	-30		1610	-5.26	X
4	IA-4	IA-4	I	D503		FC440		0805	-30		1543	-4.95	X
5	IA-5	IA-5	I	D575		FC187		0745	-32		1800 1648	-11.98	X
6	IA-6	IA-6	I	D891		FC443		0738	-29		1550	-4.25	X
7	IA-7	IA-7	I	D924		FC438		0940	-30		1720	-6.42	X
8	OA	OA	A	D863		FC70		0747	-31		1035	-7.90	X

Relinquished by: (Signature) Stephanie Bone GEOSYNTEC STEPHANIE BONE	Received by: (Signature/Affiliation) Dannyle EA	Date: 6/12/20	Time: 19:10
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

6/16/2020

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-30847-1

Login Number: 30847
List Number: 1
Creator: Liao, Gineyau

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Summa Canister Dilution Worksheet

Client: Geosyntec Consultants, Inc.
Project/Site: PN20651FW2/267B

Job No.: 570-30847-1

Lab Sample ID	Canister Volume (L)	Presampling Pressure ("Hg)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
570-30847-1	6	-29.5	-5.4	0.82	4.92	-2.65223	0.82	4.92		1.00	1.00	AIR MG-4	06/12/20 22:02	S8WJ
570-30847-2	6	-29.5	-4.2	0.86	5.16	-2.06285	0.86	5.16		1.00	1.00	AIR MG-4	06/12/20 22:03	S8WJ
570-30847-3	6	-29.5	-6.0	0.80	4.80	-2.94692	0.80	4.80		1.00	1.00	AIR MG-4	06/12/20 22:07	S8WJ
570-30847-4	6	-29.5	-7.6	0.75	4.48	-3.73277	0.75	4.48		1.00	1.00	AIR MG-4	06/12/20 22:08	S8WJ
570-30847-5	6	-29.5	-12.4	0.59	3.51	-6.09031	0.59	3.51		1.00	1.00	AIR MG-4	06/12/20 22:08	S8WJ
570-30847-6	6	-29.5	-1.6	0.95	5.68	-0.785847	0.95	5.68		1.00	1.00	AIR MG-4	06/12/20 22:09	S8WJ
570-30847-7	6	-29.5	-7.2	0.76	4.56	-3.53631	0.76	4.56		1.00	1.00	AIR MG-4	06/12/20 22:10	S8WJ
570-30847-8	6	-29.5	-8.8	0.71	4.24	-4.32216	0.71	4.24		1.00	1.00	AIR MG-4	06/12/20 22:11	S8WJ

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

Appendix E2

Asbestos and Lead-Based Paint Survey Report

Geosyntec Consultants, Inc.
520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 206.496.1450
www.geosyntec.com

29 June 2020

Ms. Tracey Schwartz
Amazon.com Services, Inc.
300 Boren Ave N
Seattle, Washington

Subject: **ACM and LBP Survey Report**
Amazon Site Code – DAX9
1211 Badillo Street, West Covina, California

Dear Ms. Schwartz:

Geosyntec Consultants, Inc. (Geosyntec) was requested by Amazon.com Services, Inc. (Amazon) to conduct a limited hazardous materials survey for the property located at 1211 Badillo Street, West Covina, California (the "Site" or "Subject Property"; Amazon Site Code DAX9). The survey was conducted in accordance with Geosyntec's proposal dated 14 May 2020, which was authorized by Amazon via Purchase Order #2D-03544757 dated 2 June 2020. The purpose of this assessment was to identify if asbestos containing material (ACM) and lead based paint (LBP) are present in the building materials.

Geosyntec subcontracted with AdvancedGeo Inc. (AGI) of Anaheim, California, to perform the survey and associated sampling. This scope of work was completed on 11 and 12 June 2020. Relevant findings are summarized in the following two attachments:

- Regulated Asbestos & LBP Detection Summary Table – provides a summary of asbestos regulated by the California Environmental Protection Agency (EPA) and/or California Division of Occupational Safety and Health (DOSH) and LBP detections from samples collected along with estimated quantities, brief description of the material, where the samples were collected from and corresponding sample IDs.
- *Asbestos and Lead-Based Paint Survey Report* (Survey Report), dated 24 June 2020. This report was prepared by AGI and provides additional details regarding analysis of the Site, including certifications, data tables, Site maps, laboratory results, and Site photographs. In addition, this report also outlines limitations to the survey, which included no roof inspection or sampling.

Geosyntec appreciates the opportunity to provide this service to Amazon. If you have any questions regarding the information contained herein, please contact either of the undersigned should you have questions.

Sincerely,

Molly Taptich, P.G. (CA, PA, WA)
Project Geologist

Melissa Asher, P.E. (CA, WA, ID, CO)
Senior Principal

Attachments: Table 1 – Regulated Asbestos & LBP Detection Summary

Asbestos and Lead-Based Paint Survey Report, 1211 Badillo Street, West Covina, California, dated 24 June 2020.

Copies to: Elaina Modlin – Geosyntec
Doug Baumwirt – Amazon
Scott Lutz - Amazon

Table 1 – Regulated Asbestos & LBP Detection Summary
DAX9 - 1211 Badillo Street, West Covina, California

Item	Bulk Sample #	Component -Location within Building	Approximate Quantity
Asbestos*	No asbestos detected.		
Item	**Lead Paint XRF Test #**	**Component -Location within Building**	**Approximate Quantity**
Lead Based Paint (LBP)	4	Metal Fire Hydrant, Yellow - Parking Area Planters Around the Property	6 Fire Hydrants
	25, 26, 120	Steel Building Support Columns, Black, Brown – Throughout Building	304 Columns, (20' high)
	30, 35	Metal Bench Seat, Red, Green Exterior Children's Play Area East	4 Seats (20 SF each)
	36, 37, 40, 55	Metal Lamp Post (with 4 Lights) Black, Parking Lot East, South, and West	18 Lampposts
	44, 47	Metal Gate Post (6" sides), Black - Southeast Entry	20 SF
	50	Metal Bollard, Yellow, Southeast Parking Area Planter	4 Bollards (5" O. D. x 3' tall)
	56	Metal Fire Hydrant, Red – Planters around the Building	5 Fire Hydrants
	65	Metal Awning Frame, Black, West Side Main Entry	200 SF
	68	Metal Stair Step and Riser, Gray, West Side Southwest Exterior Stairs	120 SF
	94	Metal Beam / Girder, Off-white, Roof and Building framing	1,200 SF
	119	Aluminum Window Transom, Brown over Blue, North Perimeter Wall	48 panels x 24 SF each
	179	Metal Loading Stage, Orange, Loading dock Southwest	25 SF
	181, 182	Metal Stair Steps and Stringer, White Loading Area Steps	40 SF

Table 1 (continued) – Regulated Asbestos & LBP Detection Summary
DAX9 - 1211 Badillo Street, West Covina, California

Item	Lead Paint XRF Test #	Component -Location within Building	Approximate Quantity
LBP	187	Metal Handrail, Black Mezzanine Stairs South	40 SF
	188, 189, 190	Metal Handrail, Step and Stringer, Black, Mezzanine Stairs North	150 SF

Notes:
Asbestos and LBP samples were collected on 11 and 12 June 2020 by Advanced Geo Inc.
The roof of the Site was not included in the scope of work for the survey or sampling.
*Regulated asbestos listed in this table includes Asbestos Containing Material (ACM) regulated by the California Environmental Protection Agency (EPA) and Asbestos Containing Construction Material (ACCM) regulated by California Division of Occupational safety and Health (DOSH).
LBP = lead-based paint
OD = outer diameter
SF = Square Feet

Asbestos and Lead-Based Paint Survey Report
BADILLO ENTERPRISE PROPERTY
1211 East Badillo Street, West Covina, California

24 June 2020
Project No. 20-6029

PREPARED FOR:

Ms. Molly Taptich
GEOSYNTEC CONSULTANTS

PREPARED BY:

AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical
Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

Asbestos and Lead-Based Paint Survey Report
BADILLO ENTERPRISES PROPERTY
1211 Badillo Street, West Covina, California

24 June 2020
Project No. 20-6029

AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical

Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

PREPARED BY:

Sam Seneviratne
Director of Industrial Hygiene
CA Certified Asbestos Consultant No. 93-0886
CA DHS Lead Inspector, Assessor No. 9658
Registered Environmental Property Assessor No. 949807

REVIEWED BY:

Robert D. Loeffler
Senior Geologist/Vice President
California Professional Geologist

Asbestos and Lead-Based Paint Survey Report
BADILLO ENTERPRISES PROPERTY
1211 East Badillo Street, West Covina, California

TABLE OF CONTENTS

SECTION **PAGE**

EXECUTIVE SUMMARY i

1.0. INTRODUCTION 1

2.0. BUILDING DESCRIPTION 1

3.0. SAMPLING PROCEDURES 1
3.1. ASBESTOS SAMPLING PROCEDURES AND ANALYTICAL METHODS 1
3.2. LEAD-BASED PAINT SAMPLING PROCEDURES AND ANALYTICAL METHODS 2

4.0. FINDINGS - ASBESTOS 3
4.1. ASBESTOS CONTAINING MATERIALS (ACM) 3
4.2. ASBESTOS CONTAINING CONSTRUCTION MATERIALS (ACCM) 3
4.3. PRESUMED ASBESTOS CONTAINING MATERIALS (PACM) 3
4.4. MATERIALS WITH NO ASBESTOS CONTENT 3
4.5. MATERIALS NOT SUSPECTED TO CONTAIN ASBESTOS 5

5.0 FINDINGS - LEAD-BASED PAINT 6
5.1. LEAD-BASED PAINT 6
5.2 LEAD CONTAINING PAINT (LCP) 6

6.0. CONCLUSIONS AND RECOMMENDATIONS 7
6.1. ASBESTOS CONTAINING MATERIALS 7
6.2. LEAD-BASED AND LEAD-CONTAINING PAINT 8

7.0. LIMITATIONS 8

FIGURES

Figure 1 – *Main Building / Site ACM and LBP Sample Locations*
Figure 2 – *Mezzanine ACM and LBP Sample Locations*

APPENDICES

Appendix A – *Inspector Certifications*
Appendix B – *Terminology and Definitions*
Appendix C – *Select Photographs*
Appendix D – *Asbestos Analytical Report and Chain of Custody*
Appendix E – *Lead-Based Paint XRF Field Test Logs*

Asbestos and Lead-Based Paint Survey Report
BADILLO ENTERPRISES PROPERTY
1211 East Badillo Street, West Covina, California

EXECUTIVE SUMMARY

AdvancedGeo Inc. (AGI) was retained by Geosyntec Consultants (Client) to conduct an asbestos containing material (ACM) and lead-based paint (LBP) survey of the interior and exterior building finishes of the Badillo Enterprises Property building located at 1211 East Badillo Street, West Covina, California (Site).

The survey was conducted on 11 and 12 June 2020 by AGI. The survey was limited to accessible building materials inside and outside the building. Sampling of roofing materials were excluded from the survey. Access to, and sampling of, hidden and/or concealed materials was not attempted due to constraints created from accessing those materials. AGI did not have authorization for heavy demolition of building or load bearing systems to access hidden areas, therefore, this was excluded from the scope of work.

ASBESTOS FINDINGS

Asbestos was not detected in any of the sampled suspect asbestos containing building materials.

LEAD-BASED PAINT (LBP) FINDINGS

Lead-based paint (LBP) was detected in the following tested painted components at the site.

XRF Test No.	Substrate and Component	Location	Color	Condition	Lead Conc. (mg/cm^2)	Approximate Quantity
4	Metal Fire Hydrant	Parking Area Planters Around the Property	Yellow	Intact (Good)	>9.9	6 Hydrants
25, 26, 120	Steel Building Support Columns	Throughout Building	Black, Brown, White	Intact	1.0	304 Columns, (20' high)
30, 35	Metal Bench Seat	Exterior Children's Play Area East	Red, Green	Intact	1.0	4 Seats (20 SF each)
36, 37, 40, 55	Metal Lamp Post (with 4 Lights)	Parking Lot East, South and West	Black	Intact	1.0	18 Lampposts

XRF Test No.	Substrate and Component	Location	Color	Condition	Lead Conc. (mg/cm^2)	Approximate Quantity
44, 47	Metal Gate Post (6" sides)	Southeast Entry	Black	Intact	1.4	20 SF
50	Metal Bollard,	Southeast Parking Area Planter	Yellow	Intact	1.0	4 Bollards (5" O. D. x 3' tall)
56	Metal Fire Hydrant	Planters around the Building	Red	Intact	1.0	5 Hydrants
65	Metal Awning Frame	West Side Main Entry	Black	Intact	1.0	200 SF
68	Metal Stair Step and Riser	West Side Southwest Exterior Stairs	Off-white	Intact	1.0	120 each
94	Metal Beam / Girder	Roof / Building framing	Off-white	Intact	1.3	1,200 SF
119	Aluminum Window Transom	North Perimeter Curtain Window	Brown over Blue	Intact	5.6, 4.8	48 panels x 24 SF each
179	Metal Loading Stage,	Loading dock Southwest	Orange,	Poor	3.5	25 SF
181, 182	Metal Stair Steps and Stringer	Loading Dock Steps	White	Poor	1.0, 1.5	30 SF
187	Metal Handrail	Mezzanine Stairs South	Black	Intact	1.0	50 SF
188, 189, 190	Metal Handrail, Step and Stringer	Mezzanine Stairs North	Black	Intact	2.1, 3.6, 4.8	150 SF

Asbestos and Lead-Based Paint Survey Report
BADILLO ENTERPRISES PROPERTY
1211 East Badillo Street, West Covina, California

1.0. INTRODUCTION

AdvancedGeo, Inc. (AGI) was retained by Geosyntec Consultants (Client) to conduct an asbestos containing materials (ACM) and lead-based paint (LBP) inspection and survey of the interior and exterior finishes of the Badillo Enterprises Property building located at 1211 East Badillo Street, West Covina, California 91790 (Site).

The survey was conducted on 11 and 12 June 2020 by Mr. Sam Seneviratne, a California Certified Asbestos Consultant (CAC #93-0886), a California Department of Public Health Lead Related Inspector Risk Assessor, Project Monitor (#9658) and a Registered Environmental Property Assessor (#949807). Mr. John Sturkie, Staff Geologist and a certified AHERA asbestos inspector assisted in the investigation. The inspector credentials are included in Appendix A.

2.0. BUILDING DESCRIPTION

The site is a 21.22-acre parcel of land developed with a 171,322 square-foot building that is currently being occupied by the Faith Christian Church. The building was initially constructed circa 1963 and was occupied by a defense manufacturing company. It was purchased by the Faith Christian Church in the early 1980's and was completely rehabilitated.

The building is constructed on a concrete slab-on-grade foundation, steel support columns and roof framing. The perimeter walls consist of concrete tilt-up walls and fixed glass windows.

The partition wall finishes within the building consist of gypsum wallboard, the floor coverings consist of mainly carpeting, unfinished (smooth) concrete and Terrazzo® in select areas. Vinyl floor tile and ceramic tile flooring are present in select storage, server rooms and restrooms respectively. The ceiling finishes consists of 2' x 4' and 2' x 2' suspended ceiling panels of mineral wool composite material.

3.0. SAMPLING PROCEDURES

3.1. ASBESTOS SAMPLING PROCEDURES AND ANALYTICAL METHODS

Representative bulk samples of suspect asbestos-containing building materials were randomly collected from accessible surfaces of the site structures. Homogeneous material determinations were assessed based on the following criteria:

- Similar physical characteristics (same appearance, color and texture, etc.).

- Application (sprayed-on, troweled-on, assembly into a system, etc.).
- Material function (thermal insulation, floor tile, wall, or ceiling system, etc.).

Once collected, the bulk samples were appropriately labeled and characterized for condition and approximate quantity during the field survey. AGI collected one hundred twenty-three (123) composite bulk samples and submitted the samples under the chain of custody protocol to Eurofins EM Lab P&K labs, a National Voluntary Laboratory Accreditation Programs (NVLAP #200757-0) and CA ELAP (#3047) certified laboratory for analysis. The samples were analyzed by polarized light microscopy (PLM), utilizing the EPA's Test Method 600/R 93/116, July 1993. The lab analyzed one hundred eighty-two (182) separate layers of materials for asbestos content (Chrysotile, Amosite, Crocidolite, Anthophyllite, Actinolite and Tremolite). One bulk sample that detected trace asbestos was further analyzed by the EPA PLM 1000-point count method to further define the ACM concentrations in that sample.

Figures 1 and 2 show the sample locations of the suspect asbestos containing materials sampled as part of the ACM survey. Terminology and definitions for asbestos containing materials are included in Appendix B. Select photographs of the site are included in Appendix C.

3.2. LEAD-BASED PAINT SAMPLING PROCEDURES AND ANALYTICAL METHODS

Lead inspections were based on testing protocols found in the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Title X). The purpose of the lead paint inspection is to assist the property owner in planning and categorization of waste, in accordance with requirements of the U.S. EPA Resource Conservation and Recovery Act (RCRA). The information contained in this report can be used by the renovation / demolition contractor to control worker exposures to lead dust during demolition or renovation activities.

The LBP inspection is conducted based on protocols presented in the HUD Guidelines (Chapter 7), using an x-ray fluorescence (XRF) analyzer. AGI utilized a RMD XLp-1B, XRF lead paint analyzer, serial # 1077, for this investigation. One hundred ninety-eight (198) lead paint tests were performed using the XRF including calibration tests.

XRF testing is performed on at least one location per testing combination. A testing combination is characterized by the room equivalent, the component type and the substrate. A room equivalent is an identifiable part of the building (e.g., room, foyer, building exterior, etc.).

Calibration checks are performed in the field prior to the start of testing and following the completion of testing or at intervals specified by the manufacturer. Calibration checks are performed by using a painted block or film of known lead content (1.0 mg/cm^2).

Figures 1 and 2 show the locations of the lead-based paint components detected during the lead-based paint inspection. Terminology and definitions for lead-based paint are included in Appendix B. Select photographs of the site are included in Appendix C.

4.0. FINDINGS - ASBESTOS

The asbestos sample analytical report and the chain-of-custody forms are included in Appendix D. The following sections of this report detail the findings.

4.1. ASBESTOS CONTAINING MATERIALS (ACM)

Asbestos materials were not detected in any of the sampled suspect asbestos containing building materials.

4.2. ASBESTOS CONTAINING CONSTRUCTION MATERIALS (ACCM)

The California Division of Occupational Safety and Health (DOSH) includes the term asbestos containing construction material (ACCM), which is any manufactured construction material containing greater than one tenth of one percent (>0.1%) but less than 1% asbestos by PLM analysis. ACCMs were not detected in any of the suspect materials that were sampled and analyzed by the analytical laboratory.

4.3. PRESUMED ASBESTOS CONTAINING MATERIALS (PACM)

Subsurface (underground) electrical power line conduit and water supply/waste pipe were historically constructed with materials that were of cement-asbestos composition. These materials are therefore noted due to their probability of being present in and around the buildings, below the surface, and may likely be encountered during future site grading or excavation activities. However, if disturbance to these ACMs are not planned, no action is required.

4.4. MATERIALS WITH NO ASBESTOS CONTENT

The following tables summarizes the samples that did not contain asbestos.

Sample #	Building Material Description	Material Location(s)
1, 2, 3	Caulk between Concrete Tilt-up Panels	Building Perimeter Walls
4, 5, 6	Carpet Glue (Blue)	Under Carpet Squares Southeast Quad

Sample #	Building Material Description	Material Location(s)
7, 8, 9	Sink Undercoat (White, Black)	Classroom Sinks Southeast Quad
10, 11, 12	Carpet Glue (Yellow)	Classroom G4
13, 14, 15,	Wallboard (White)	Partition Walls Southeast Quad
16, 17, 18	Joint Compound (White)	Partition Walls Southeast Quad
19, 20, 21	12” Floor Tile, Gray and Clear Glue	Classroom G3
22, 23, 24	4” Base Cove (Black)	Southeast Quad Hallways and Rooms
25, 26, 27	Base Cove Glue (White)	Southeast Quad Hallways and Rooms
28, 29, 30	Vinyl Rubber Flooring (Gray)	Room G3
31, 32, 33	Wallboard (White)	Partition Walls Center East Area of Building
34, 35, 36	Joint Compound (White)	Partition Walls Center East Area of Building
37, 38, 39	2' x 4' Suspended Ceiling Panels	Southeast Quad Ceilings
40, 41, 42	2' x 2' Suspended Ceiling Panels	Southeast Quad Ceilings
43, 44, 45	Caulk (White) around Window Transom Panels	Exterior North Perimeter Wall Fixed Glass Window Transoms
46, 47, 48	Exterior Stucco Plaster with Paint (Brown)	Exterior Soffit and Walls North, and West
49, 50, 51	Sink Undercoat (Gray)	Classrooms B-1 – B10 Sinks
52, 53, 54	Wallboard (White)	Partition Walls Northeast Quad Hallway and Rooms
55, 56, 57	Joint Compound (White)	Partition Walls Northeast Quad. Hallway and Rooms
58, 59, 60	Carpet Glue (Yellow)	Kids Theater
61, 62, 63	Ceramic Tile 2”x2” Gray and Grout Gray	North East Quad, Men’s and Women’s Restroom Walls and Floors
64, 65, 66	Thin Set and Glue (White)	North East Quad, Men’s and Women’s Restroom Walls and Floors
67, 68, 69	Glue (Yellow)	Room B5 Under Rubber Floor (Black with White Spots)
70, 71, 72	4” Base Cove (Gray) and Glue (White)	Northeast Quad Partition Walls Hallways and Classrooms

Sample #	Building Material Description	Material Location(s)
73, 74, 75	2'x2' Ceiling Panel (random fissure pattern)	Pavilion C4 Storage (East)
76, 77, 78	Wallboard	Partition Walls Northwest Quad. Hallway and Rooms
79, 80, 81	Joint Compound	Partition Walls Northwest Quad. Hallway and Rooms
82, 83, 84	12" Floor Tile Gray and Clear Glue	Server room – Zone 45
85	Concrete - Terrazzo®	Zone 45 Floor
86, 87	Concrete	Floor Slab
88, 89, 90	Carpet Glue (Yellow)	Northwest Office area Floors
91, 92, 93	Plaster Composite	Northwest office Area Walls
94, 95, 96	Button Board (Gypsum)	Northwest office Area Walls
97, 98 99	4" Base Cove, (Beige) and Glue (White, Brown)	Northwest office Area Walls
100, 101, 102	2' x 4' Suspended Ceiling Panels	Northwest office area Ceilings
103, 104, 105	Wallboard	Partition Walls Center West Hallway and Rooms
106, 107, 108	Joint Compound	Partition Walls Center West Hallway and Rooms
109, 110, 111	12" Floor Tile (Yellow) and Glue (Clear)	Café Bookstore Storage Room
112, 113, 114	Wallboard	Partition Walls Southwest Quad. and Mezzanine
115, 116, 117	Joint Compound	Partition Walls Southwest Quad. and Mezzanine
118, 119, 120	Pipe Insulation End Cap Caulk (White)	Mezzanine HVAC Air Handler Pipe Insulation
121, 122, 123	12" Floor Tile (Cream with Large Bubble Pattern) and Mastic (Black)	Mezzanine Engineering Office, Breakroom

4.5. MATERIALS NOT SUSPECTED TO CONTAIN ASBESTOS

Wood, plastic, fiberglass, glass, metal and rubber building components are not considered suspect ACM and therefore, were not sampled by the asbestos inspector.

5.0. FINDINGS - LEAD-BASED PAINT

Federal and California Department of Public Health (DPH) regulations define LBP as any surface coating that contains lead at or above 1.0 milligrams per square centimeter (mg/cm²), using XRF analyzing technology or 5,000 parts per million or 0.5% lead, when analyzing bulk paint samples. The XRF lead paint testing analytical field logs are attached to Appendix E.

5.1. LEAD-BASED PAINT

Lead was detected in concentrations above 1.0 mg/cm^2 in select components inside and outside the building with XRF testing of paint film and glazed building components. The lead-based paint results are tabulated below.

XRF Test No.	Substrate and Component	Location	Color	Condition	Lead Conc. (mg/cm^2)	Approximate Quantity
4	Metal Fire Hydrant	Parking Area Planters Around the Property	Yellow	Intact (Good)	>9.9	6 Hydrants
25, 26, 120	Steel Building Support Columns	Throughout Building	Black, Brown, White	Intact	1.0	304 Columns, (20' high)
30, 35	Metal Bench Seat	Exterior Children's Play Area East	Red, Green	Intact	1.0	4 Seats (20 SF each)
36, 37, 40, 55	Metal Lamp Post (with 4 Lights)	Parking Lot East, South and West	Black	Intact	1.0	18 Lampposts
44, 47	Metal Gate Post (6" sides)	Southeast Entry	Black	Intact	1.4	20 SF
50	Metal Bollard,	Southeast Parking Area Planter	Yellow	Intact	1.0	4 Bollards (5" O. D. x 3' tall)
56	Metal Fire Hydrant	Planters around the Building	Red	Intact	1.0	5 Hydrants
65	Metal Awning Frame	West Side Main Entry	Black	Intact	1.0	200 SF

XRF Test No.	Substrate and Component	Location	Color	Condition	Lead Conc. (mg/cm^2)	Approximate Quantity
68	Metal Stair Step and Riser	West Side Southwest Exterior Stairs	Off-white	Intact	1.0	120 each
94	Metal Beam / Girder	Roof / Building framing	Off-white	Intact	1.3	1,200 SF
119	Aluminum Window Transom	North Perimeter Curtain Window	Brown over Blue	Intact	5.6, 4.8	48 panels x 24 SF each
179	Metal Loading Stage,	Loading dock Southwest	Orange,	Poor	3.5	25 SF
181, 182	Metal Stair Steps and Stringer	Loading Dock Steps	White	Poor	1.0, 1.5	30 SF
187	Metal Handrail	Mezzanine Stairs South	Black	Intact	1.0	50 SF
188, 189, 190	Metal Handrail, Step and Stringer	Mezzanine Stairs North	Black	Intact	2.1, 3.6, 4.8	150 SF

5.2. LEAD CONTAINING PAINT (LCP)

Lead containing paint with lead concentrations between 0.7 and 1.0 mg/cm^2 was not detected in the tested paints or glazed components.

6.0. CONCLUSIONS AND RECOMMENDATIONS

6.1. ASBESTOS CONTAINING MATERIALS

Results of bulk sample analysis of suspect asbestos containing materials sampled and analyzed by the laboratory determined that asbestos was not present in the suspect ACM at the property. The roof coverings were not sampled since roofing materials are not expected to be impacted by the planned interior renovations as well as to preserve the integrity of the roofing system.

This survey was limited to accessible building materials in the areas specified. Destructive sampling was not in the scope of work nor was it attempted during the survey activities.

Caution should be used when performing demolition activities where hidden, concealed and/or unidentified materials may exist. Hidden materials considered suspect for asbestos at this Site may include vapor/moisture barriers on floor substrates, insulations on hidden/inaccessible piping and roof coverings and roof sealant mastics. Disturbance to unidentified suspect ACMs not assessed and sampled during the survey and not mentioned in this report, should be avoided until a certified asbestos building inspector can survey and assess the disposition of such materials.

6.2. LEAD-BASED AND LEAD-CONTAINING PAINT

Select painted surfaces and/or paint coatings and components within the Site were identified as LBP. The paint was observed to be in poor to intact (good) condition at the time of the assessment. If the LBP listed has the potential to be disturbed and or damaged during demolition activities, the contractor demolishing and /or disturbing the lead-based paint will be required to follow the US Occupational Safety and Health Administration (OSHA) regulations.

It is the demolition Contractor's responsibility to be aware of and abide by the most stringent of local, state and federal regulations, statutes, ordinances and standards. Waste generated as part of the demolition shall be segregated and characterization testing of the waste shall be conducted in order to determine the final disposition of the waste as per the federal RCRA regulations.

The USEPA defines Hazardous Waste as waste containing the minimum concentration of a contaminant identified by the Toxicity Characteristic Leaching Procedure (TCLP). The USEPA regulatory level for leachable lead (US EPA Code: D008) is 5.0 milligrams per liter (mg/L). The above describes prudent evaluation with regards to waste, however, contractors should check with their intended landfill(s) to make certain they perform all necessary waste characterization testing required for the anticipated waste streams generated by the demolition of the structures.

7.0. LIMITATIONS

The content presented in this survey report is based on data collected during the site survey and information provided by the review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided (if any) by the property owner, agents, and representatives.

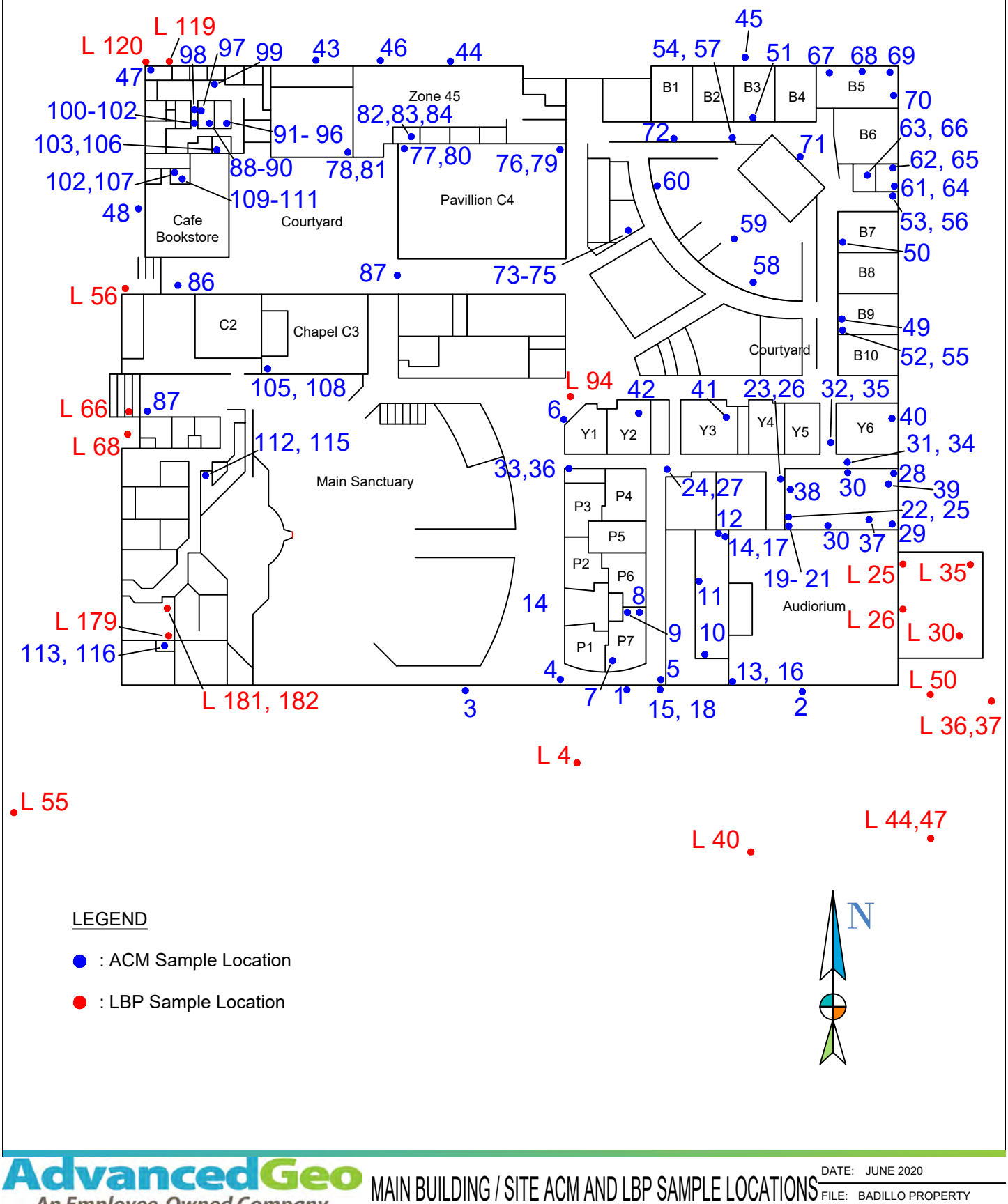
The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. AGI believes the data and analysis to be accurate and relevant but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties. Structures or components surveyed may contain hidden surfaces or materials requiring destructive access to survey and/or sample. It is possible that

additional materials could be discovered during destructive, demolition and/or excavation activities. In the event additional materials (not identified herein) are discovered during such activities, additional survey and sampling may be necessary.

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. The sampling for asbestos, was based on the presence of construction materials or materials frequently containing asbestos. This investigation limited asbestos sampling to accessible friable building materials or non-friable materials thought to possibly contain asbestos. Inaccessible materials have not been tested and no warranty regarding their asbestos content can be made.

The conclusions are based on the features noted on or in the building during the sampling events. The fact that no asbestos was detected in some materials listed does not necessarily imply that those materials are free of any other sources of asbestos. This report only represents a "due diligence" effort as to the integrity of the site. No other warranty, expressed or implied, is made as to the conclusions contained in this report.

FIGURES



LEGEND

- : ACM Sample Location
- : LBP Sample Location

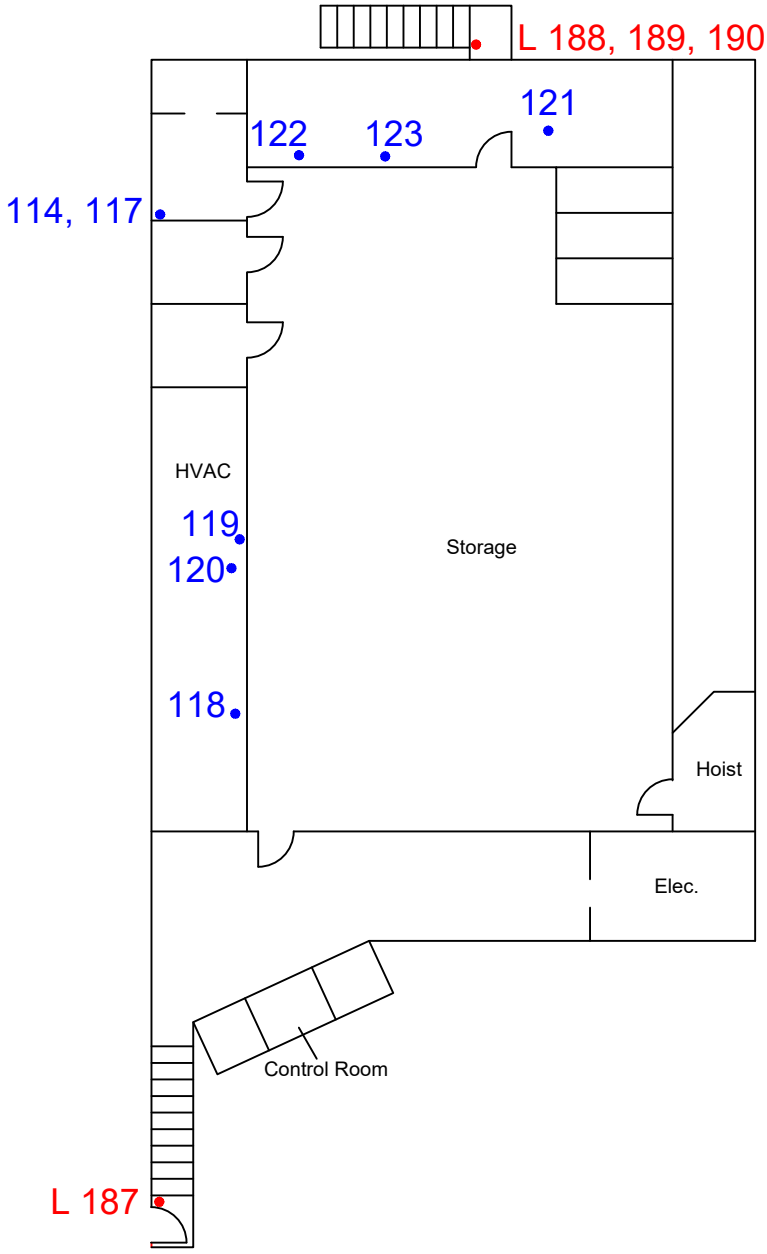
N

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

MAIN BUILDING / SITE ACM AND LBP SAMPLE LOCATIONS

BADILLO ENTERPRISES PROPERTY
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

DATE: JUNE 2020
FILE: BADILLO PROPERTY
DRAWN BY: MAC
PROJECT NO. 20-6029
FIGURE: 1



LEGEND

● : ACM Sample Location

● : LBP Sample Location

N

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

MEZZANINE ACM AND LBP SAMPLE LOCATIONS
BADILLO ENTERPRISES PROPERTY
1211 BADILLO STREET
WEST COVINA, CALIFORNIA

DATE: JUNE 2020
FILE: BADILLO MEZZANINE
DRAWN BY: MAC
PROJECT NO. 20-6029
FIGURE: 2

APPENDIX A

Inspector Certifications

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
	Lead Inspector/Assessor	LRC-00004982	1/8/2021
	Lead Project Monitor	LRC-00004981	1/8/2021

Samita Seneviratne

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Samita D Seneviratne
Name



Certification No. **93-0886**

Expires on **02/18/21**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

Certificate Of Completion

Asbestos Building Inspector Initial Course

DOSH #:CA-015-05

John Sturkie

ABII0113200001N22564

Rodger Sandlin
Principal Instructor

Michael W. Horner
Training Director

1/13/2020	1/15/2020	1/15/2020	1/15/2021
Course Start Date	Course End Date	Exam Date	Expiration Date

This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California

NATEC International, Inc.
National Association of Training and Environmental Consulting
1100 Technology Circle- Suite A, Anaheim, CA 92805 • www.natecintl.com • 800-969-3228

Important Industry Contacts

CAL-OSHA: Ph# (916) 574-2993
(916) 483-0572 Fax Notification
Web: www.dir.ca.gov or calosha.com

CDPH/CLPPB: Ph# (510) 620-5600
Web: www.cdph.ca.gov/programs/CLPPB

SCAQMD: Ph# (909) 396-3739
Fax#(909) 396-3342

BAAQMD: Ph# (415) 749-4762

NATEC International, Inc.
National Association of Training and Environmental Consulting
Anaheim, CA • Oakland, CA • Fresno, CA • Sacramento, CA
Asbestos • Lead • Mold • HAZWOPER
P.O. Box 25205 Anaheim, CA 92825-5205
(714) 678-2750, (800) 969-3228, Fax (714) 678-2757
www.natecintl.com

NATEC International, Inc.
National Association of Training and Environmental Consulting
*Note: Card is not suitable substitute for certificate and is not accepted by SCAQMD as proof of certification

This Card Acknowledges That
John Sturkie

Holds Training Certification For
Asbestos Building Inspector Initial Course

Expiration: 1/15/2021

Training Date 1/13/2020
Certificate No. ABII0113200001N22564

Michael W. Horner
Training Director

APPENDIX B

Terminology and Definitions

AdvancedGeo
An Employee-Owned Company

TERMINOLOGY AND DEFINITIONS

ASBESTOS CONTAINING MATERIALS

The Environmental Protection Agency (EPA) defines ACM as follows:

1. Friable ACM is defined as, any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
2. Non-friable ACM is any material containing more than one percent (1%) asbestos as determined using the PLM method that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. The EPA further defines two categories of non-friable ACM:
    - Category I (Cat I) - Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined using PLM, and
    - Category II (Cat II) - Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined using PLM that, when dry, cannot be crumbled, pulverized, or reduced
3. Homogeneous Area/Material: An area/material of surfacing, thermal system insulation or miscellaneous material that is uniform in appearance, age, color and texture.
4. ACM Condition Assessments: Asbestos materials are placed in one of three condition assessment categories based on a visual inspection of the suspect materials at the time of the survey:
    - Good – exhibits no physical damage;
    - Damaged – less than 10% damage evenly distributed or less than 25% localized damage;
    - Significantly Damaged – greater than 10% damage evenly distributed or greater than 25% localized damage. Significant damage condition is designed to identify ACMs that need to be isolated and removed or repaired as soon as feasible.

The Occupational Safety and Health Administration (OSHA) and the California Division of Occupational Safety and Health (DOSH) define asbestos-containing material (ACM), as any material containing more than one percent asbestos. In addition, DOSH includes

the term asbestos-containing construction material (ACCM), which is any manufactured construction material containing greater than one tenth of one percent (>0.1%) asbestos, as determined by PLM analytical methods.

Regulated Asbestos-Containing Material (RACM) is (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

LEAD-BASED PAINT

Lead inspections were based on testing protocols found in the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Title X) and the California Department of Public Health (CA-DPH). The purpose of the lead paint inspections is to assist the property owner in planning and categorization of waste, in accordance with requirements of the U.S. EPA Resource Conservation and Recovery Act (RCRA), and the demolition contractor to control worker exposures to lead dust during demolition activities.

The California Department of Public Health (CDPH), HUD, and United States Environmental Protection Agency (EPA), define lead-based paint (LBP) as a paint or other surface coating that contains an amount of lead equal to, or in excess of:

- One milligram per square centimeter (1.0 mg/cm2); or
- One-half of one percent (0.5%) by weight; or
- Five-thousand parts per million (5,000 ppm).

According to Cal-OSHA Lead in Construction Standard, California Code of Regulations Title 8 Section 1532.1(a) “applies to all construction work where an employee may be occupationally exposed to lead” and does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. This assessment was performed for Cal-OSHA compliance purposes. As such, an XRF reading with a lead concentration above 0.7 mg/cm² equivalent to (600 PPM) is declared a Lead Containing Paint (LCP).

APPENDIX C

Select Photographs

AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 1

Description:
LBP - Metal Fire Hydrant, Yellow - Parking Area Planters Around the Property



Photo No. 2

Description:
LBP- Steel Building Support Columns, Black, Brown – Throughout Building



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 3

Description:
LBP - Metal Bench Seat, Red, Exterior Children's Play Area East



Photo No. 4

Description:
LBP - Metal Bench Seat, Green Exterior Children's Play Area East



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 5

Description:
LBP - Metal Lamp Post (with 4 Lights), Black, Parking Lot East, South and West

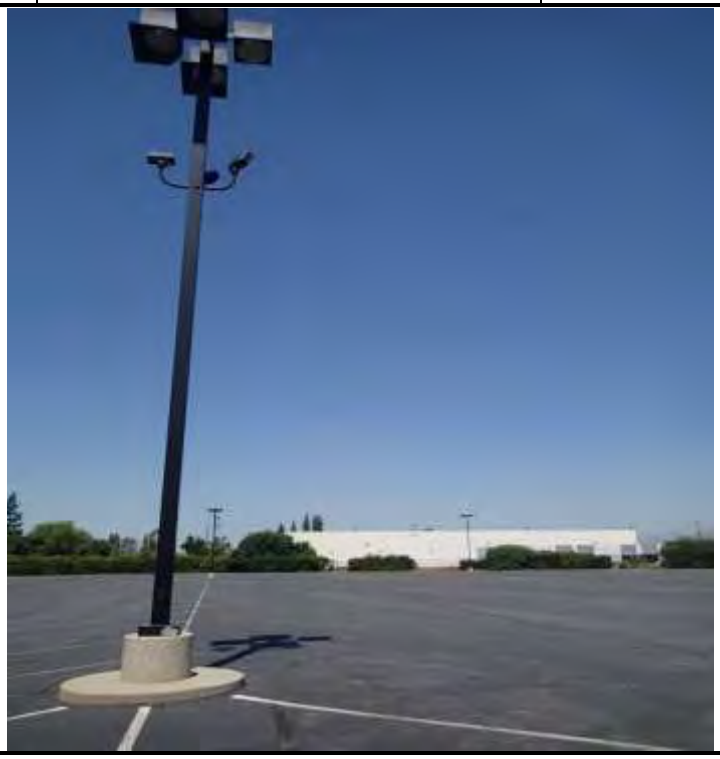


Photo No. 6

Description:
LBP - Metal Gate Post (6" sides), Black - Southeast Entry



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 7

Description:
LBP - Metal Bollard, Yellow, Southeast Parking Area Planter



Photo No. 8

Description:
LBP - Metal Fire Hydrant, Red – Planters around the Building



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 9

Description:
LBP - Metal Awning Frame, Black, West Side Main Entry



Photo No. 10

Description:
LBP - Metal Stair Step and Riser, Gray, West Side Southwest Exterior Stairs



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 11

Description:
LBP - Metal Beam / Girder, Off-white, Roof and Building Framing



Photo No. 12

Description:
LBP - Aluminum Window Transom, Brown over Blue, North Perimeter Wall



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

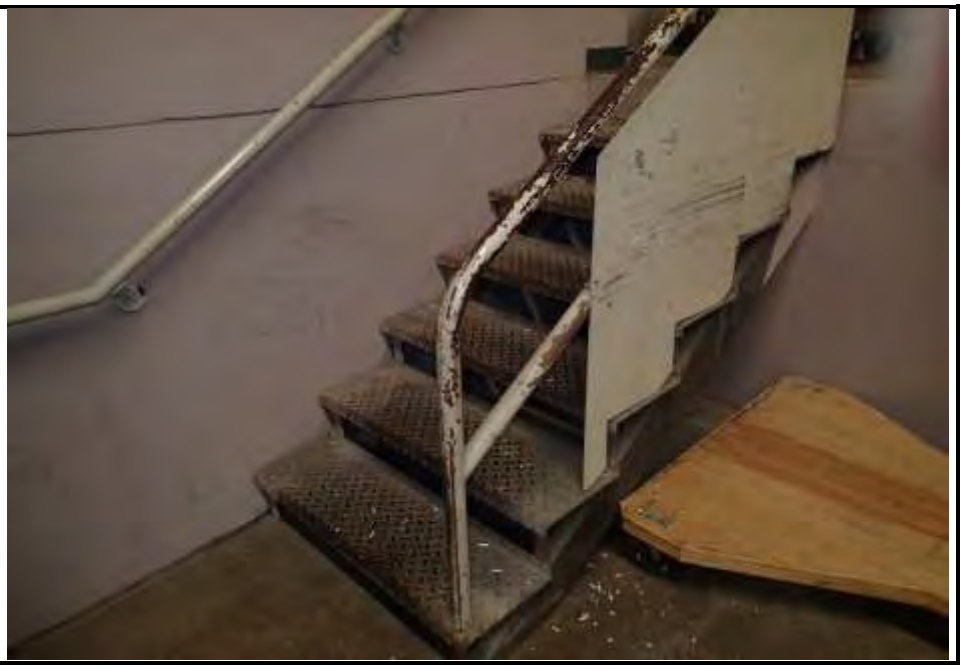
Photo No. 13

Description:
LBP - Metal Loading Stage, Orange, Loading dock Southwest



Photo No. 14

Description:
LBP - Metal Stair Steps and Stringer, White Loading Area Steps



AdvancedGeo
An Employee-Owned Company

Photographic Log

Client Name:	Site Location:	Project No.:
Geosyntec Consultants	1211 Badillo Street West Covina, California	20-6029

Photo No. 15

Description:
LBP - Handrail, Black
Mezzanine Stairs South

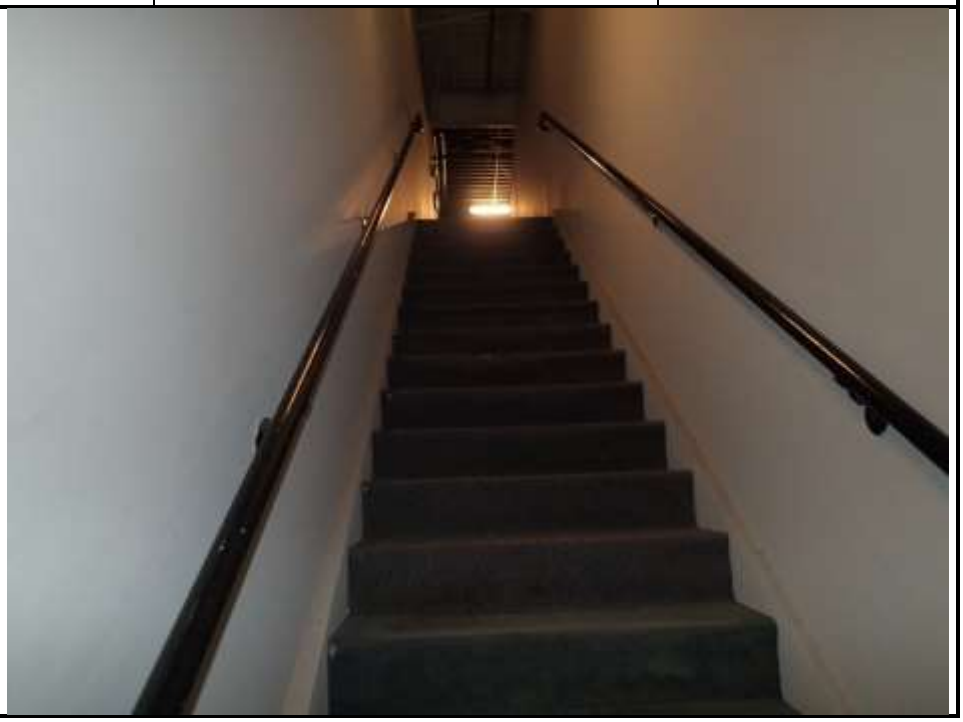
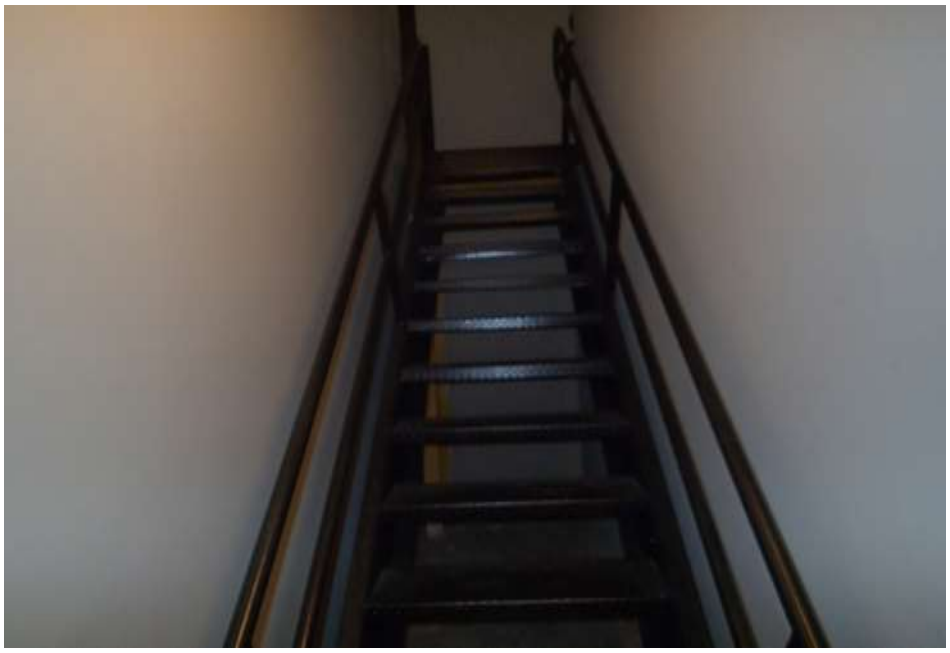


Photo No. 16

Description:
LBP - Handrail, Step and Stringer, Black, Mezzanine Stairs North



APPENDIX D

Asbestos Analytical Report and
Chain of Custody

eurofins | EMLab P&K

Report for:

Sam Seneviratne
Advanced Geo, Inc.
3335 East Miraloma Avenue, Suite 142
Anaheim, CA 92806

Regarding: Project: Badillo Ent. Prop.; ACM Survey
EML ID: 2423128

Approved by:



Approved Signatory
Danny Li

Dates of Analysis:
Asbestos PLM: 06-16-2020 and 06-17-2020

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200757-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Total Samples Submitted:	123
Total Samples Analyzed:	123
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1, Caulk between conc. tilt-up panels-building south side Lab ID-Version‡: 11556577-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity:	Good

Location: 2, Caulk between conc. tilt-up panels-building east side Lab ID-Version‡: 11556578-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity:	Good

Location: 3, Caulk between conc. tilt-up panels-building west side Lab ID-Version‡: 11556579-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity:	Good

Location: 4, Carpet glue (blue)-main entry lobby Lab ID-Version‡: 11556580-1

Sample Layers	Asbestos Content
Blue Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 5, Carpet glue (blue)-south east hallway Lab ID-Version‡: 11556581-1

Sample Layers	Asbestos Content
Blue Glue	ND
Sample Composite Homogeneity:	Good

Location: 6, Carpet Glue Center east Hallway Lab ID-Version‡: 11561290-1

Sample Layers	Asbestos Content
Blue Glue	ND
Sample Composite Homogeneity:	Good

Location: 7, Sink under coat white-Cl Rm PT Lab ID-Version‡: 11556582-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 8, Sink under coat white-Cl Rm PT Lab ID-Version‡: 11556583-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 9, Sink under coat Blk-Cl Rm PT Lab ID-Version‡: 11556584-1

Sample Layers	Asbestos Content
Black Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 10, Carpet glue (yellow)-Rm G4 Lab ID-Version‡: 11556585-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 11, Carpet glue (yellow)-Rm G4 Lab ID-Version‡: 11556586-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 12, Carpet glue (yellow)-Rm G4 Lab ID-Version‡: 11556587-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 13, Wallboard-Rm G4 Lab ID-Version‡: 11556588-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 14, Wallboard-Rm G4 Lab ID-Version‡: 11556589-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 15, Wallboard-SE hallway Lab ID-Version‡: 11556590-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 16, Joint compound-SE hallway Lab ID-Version‡: 11556591-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 17, Joint compound-SE hallway Lab ID-Version‡: 11556592-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 18, Joint compound-SE hallway Lab ID-Version‡: 11556593-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 19, 12" FT gray (self adhesive clear glue)-Rm G3 SW corner behind stage Lab ID-Version‡: 11556594-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 20, 12" FT gray (self adhesive clear glue)-Rm G3 SW corner behind stage Lab ID-Version‡: 11556595-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 21, 12" FT gray (self adhesive clear glue)-Rm G3 SW corner behind stage Lab ID-Version‡: 11556596-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 22, 4" base cove (Blk)-through out hallways and rooms Lab ID-Version‡: 11556597-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Sample Composite Homogeneity:	Good

Location: 23, 4" base cove (Blk)-through out hallways and rooms Lab ID-Version‡: 11556598-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Sample Composite Homogeneity:	Good

Location: 24, 4" base cove (Blk)-through out hallways and rooms Lab ID-Version‡: 11556599-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 25, Base cove glue (white)-Rm G3 Lab ID-Version‡: 11556600-1

Sample Layers	Asbestos Content
White Glue	ND
Sample Composite Homogeneity:	Good

Location: 26, Base cove glue (white)-SE hallway Lab ID-Version‡: 11556601-1

Sample Layers	Asbestos Content
White Glue	ND
Sample Composite Homogeneity:	Good

Location: 27, Base cove glue (white)-SE hallway Lab ID-Version‡: 11556602-1

Sample Layers	Asbestos Content
White Glue	ND
Sample Composite Homogeneity:	Good

Location: 28, Vinyl rubber flooring (gray)-Rm G3 Lab ID-Version‡: 11556603-1

Sample Layers	Asbestos Content
Gray Flooring	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 29, Vinyl rubber flooring (gray)-Rm G3 Lab ID-Version‡: 11556604-1

Sample Layers	Asbestos Content
Gray Flooring	ND
Sample Composite Homogeneity:	Good

Location: 30, Vinyl rubber flooring (gray)-Rm G3 Lab ID-Version‡: 11556605-1

Sample Layers	Asbestos Content
Gray Flooring	ND
Sample Composite Homogeneity:	Good

Location: 31, Wallboard-Rm G3 server Rm Lab ID-Version‡: 11556606-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 32, Wallboard-center east hallway (S) Lab ID-Version‡: 11556607-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 33, Wallboard-center east hallway (N) Lab ID-Version‡: 11556608-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 34, Joint compound Lab ID-Version‡: 11556609-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 35, Joint compound Lab ID-Version‡: 11556610-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 36, Joint compound Lab ID-Version‡: 11556611-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 37, 2'x4' suspended ceiling pack-Rm G3 Lab ID-Version‡: 11556612-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 38, 2'x4' suspended ceiling pack-Rm G3 Lab ID-Version‡: 11556613-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 39, 2'x4' suspended ceiling pack-Rm G3 Lab ID-Version‡: 11556614-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 40, 2'x2' suspended ceiling panels-Rm 46 Lab ID-Version‡: 11556615-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 41, 2'x2' suspended ceiling panels-Rm 43 Lab ID-Version‡: 11556616-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 42, 2'x2' suspended ceiling panels-Rm 42 Lab ID-Version‡: 11556617-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 43, Caulk (white) around transition (window) panels (AC)-ext. north fixed glass window transition Lab ID-Version‡: 11556618-1

Sample Layers	Asbestos Content
White Caulk	ND
Light Gray Caulk	ND
Sample Composite Homogeneity:	Moderate

Location: 44, Caulk (white) around transition (window) panels (AC)-ext. north fixed glass window transition Lab ID-Version‡: 11556619-1

Sample Layers	Asbestos Content
White Caulk	ND
Light Gray Caulk	ND
Silver Paint	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 45, Caulk (white) around transition (window) panels (AC)-ext. north fixed glass window transition

Lab ID-Version‡: 11556620-1

Sample Layers	Asbestos Content
White Caulk	ND
Light Gray Caulk	ND
Sample Composite Homogeneity:	Moderate

Location: 46, Ext. stucco (plaster) with paint (brown)-ext. soffit north

Lab ID-Version‡: 11556621-1

Sample Layers	Asbestos Content
Tan Stucco with Paint	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 47, Ext. stucco (plaster) with paint (brown)-ext. wall N. west

Lab ID-Version‡: 11556622-1

Sample Layers	Asbestos Content
White Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 48, Ext. stucco (plaster) with paint (brown)-ext. wall S. west

Lab ID-Version‡: 11556623-1

Sample Layers	Asbestos Content
White Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 49, Sink under coat (gray)-Cl Rms B10-B-1 Lab ID-Version‡: 11556624-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 50, Sink under coat (gray)-Cl Rms B10-B-1 Lab ID-Version‡: 11556625-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 51, Sink under coat (gray)-Cl Rms B10-B-1 Lab ID-Version‡: 11556626-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 52, Wall board-northeast area-B9 Lab ID-Version‡: 11556627-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 53, Wall board-northeast hallway at perimeter wall Lab ID-Version‡: 11556628-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 54, Wall board-northeast kids theater Lab ID-Version‡: 11556629-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 55, Joint compound-northeast kids theater Lab ID-Version‡: 11556630-1

Sample Layers	Asbestos Content
White Caulk	ND
White Joint Compound with Paint	ND
Cream Tape	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 56, Joint compound-northeast kids theater Lab ID-Version‡: 11556631-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 57, Joint compound-northeast kids theater Lab ID-Version‡: 11556632-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 58, Carpet glue (yellow)-kids theater Lab ID-Version‡: 11556633-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 59, Carpet glue (yellow)-kids theater Lab ID-Version‡: 11556634-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 60, Carpet glue (yellow)-kids theater Lab ID-Version‡: 11556635-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 61, Ceramic tile 2"x2" gray and grout gray-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556636-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Gray Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 62, Ceramic tile 2"x2" gray and grout gray-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556637-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Gray Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 63, Ceramic tile 2"x2" gray and grout gray-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556638-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Gray Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 64, Thinset and glue (white)-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556639-1

Sample Layers	Asbestos Content
Off-White Glue	ND
White Thinset	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 65, Thinset and glue (white)-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556640-1

Sample Layers	Asbestos Content
Off-White Glue	ND
White Thinset	ND
Sample Composite Homogeneity:	Moderate

Location: 66, Thinset and glue (white)-NE quad men's and women's restroom walls and floors

Lab ID-Version‡: 11556641-1

Sample Layers	Asbestos Content
Off-White Glue	ND
White Thinset (Trace)	ND
Sample Composite Homogeneity:	Moderate

Location: 67, Glue (yellow) under rubber floor Blk with white spots-Rm B5

Lab ID-Version‡: 11556642-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 68, Glue (yellow) under rubber floor Blk with white spots-Rm B5

Lab ID-Version‡: 11556643-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 69, Glue (yellow) under rubber floor Blk with white spots-Rm B5 Lab ID-Version‡: 11556644-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 70, 4" base cove (gray) and glue (white)-north east quad walls at hallways and Cl Rms Lab ID-Version‡: 11556645-1

Sample Layers	Asbestos Content
Light Gray Baseboard	ND
White Glue	ND
Sample Composite Homogeneity:	Good

Location: 71, 4" base cove (gray) and glue (white)-north east quad walls at hallways and Cl Rms Lab ID-Version‡: 11556646-1

Sample Layers	Asbestos Content
Light Gray Baseboard	ND
White Glue	ND
Sample Composite Homogeneity:	Good

Location: 72, 4" base cove (gray) and glue (white)-north east quad walls at hallways and Cl Rms Lab ID-Version‡: 11556647-1

Sample Layers	Asbestos Content
Light Gray Baseboard	ND
White Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 73, 2'x2' ceiling panel (random fissure pattern)-pavilion C4 storage (self) Lab ID-Version‡: 11556648-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 74, 2'x2' ceiling panel (random fissure pattern)-pavilion C4 storage (self) Lab ID-Version‡: 11556649-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 75, 2'x2' ceiling panel (random fissure pattern)-pavilion C4 storage (self) Lab ID-Version‡: 11556650-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 76, Wallboard-Pav. C4 northwest Quad Lab ID-Version‡: 11556651-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 77, Wallboard-zone 45 server Rm Lab ID-Version‡: 11556652-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 78, Wallboard-zone 45 Auditorium Lab ID-Version‡: 11556653-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 79, Joint compound-zone 45 Auditorium Lab ID-Version‡: 11556654-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 80, Joint compound-zone 45 Auditorium Lab ID-Version‡: 11556655-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 81, Joint compound-zone 45 Auditorium Lab ID-Version‡: 11556656-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 82, 12" FT gray and clear glue-server Rm-zone 45 Lab ID-Version‡: 11556657-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 83, 12" FT gray and clear glue-server Rm-zone 45 Lab ID-Version‡: 11556658-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 84, 12" FT gray and clear glue-storage Rm-zone 45 Lab ID-Version‡: 11556659-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 85, Conc. (terrazzo entry)-zone 45-floor Lab ID-Version‡: 11556660-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Good

Location: 86, Conc. (terrazzo entry)-NW exit hallway Lab ID-Version‡: 11556661-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Good

Location: 87, Conc. (terrazzo entry)-SW exit hallway Lab ID-Version‡: 11556662-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Good

Location: 88, Carpet glue (yellow)-northeast office area Lab ID-Version‡: 11556663-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 89, Carpet glue (yellow)-northeast office area Lab ID-Version‡: 11556664-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 90, Carpet glue (yellow)-northeast office area Lab ID-Version‡: 11556665-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Good

Location: 91, Plaster composite-NW office area walls Lab ID-Version‡: 11556666-1

Sample Layers	Asbestos Content
White Plaster	ND
Off-White Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: 92, Plaster composite-NW office area walls Lab ID-Version‡: 11556667-1

Sample Layers	Asbestos Content
White Plaster	ND
Off-White Plaster	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 93, Plaster composite-NW office area walls Lab ID-Version‡: 11556668-1

Sample Layers	Asbestos Content
White Plaster	ND
Off-White Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: 94, Bottom board (gypsum)-NW office area walls Lab ID-Version‡: 11556669-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 95, Bottom board (gypsum)-NW office area walls Lab ID-Version‡: 11556670-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 96, Bottom board (gypsum)-NW office area walls Lab ID-Version‡: 11556671-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 97, 4" base cove beige and white and Brn glue-NW office areas Lab ID-Version‡: 11556672-1

Sample Layers	Asbestos Content
Beige Baseboard	ND
Off-White Glue	ND
Brown Glue	ND
Sample Composite Homogeneity:	Good

Location: 98, 4" base cove beige and white and Brn glue-NW office areas Lab ID-Version‡: 11556673-1

Sample Layers	Asbestos Content
Beige Baseboard	ND
Off-White Glue	ND
Brown Glue	ND
Sample Composite Homogeneity:	Good

Location: 99, 4" base cove Brn and white and Brn glue-NW office areas Lab ID-Version‡: 11556674-1

Sample Layers	Asbestos Content
Beige Baseboard	ND
Off-White Glue	ND
Brown Glue	ND
Sample Composite Homogeneity:	Good

Location: 100, 2'x4' suspended ceiling pack-NW office areas Lab ID-Version‡: 11556675-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 101, 2'x4' suspended ceiling pack-NW office areas Lab ID-Version‡: 11556676-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 102, 2'x4' suspended ceiling pack-NW office areas Lab ID-Version‡: 11556677-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 103, Wallboard-NW office area (Elec. Rm) Lab ID-Version‡: 11556678-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 104, Wallboard-cafe storage Rm Lab ID-Version‡: 11556679-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 105, Wallboard-Chapel C3

Lab ID-Version‡: 11556680-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 106, Joint compund-NW office area (Elec. Rm)

Lab ID-Version‡: 11556681-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 107, Joint compund-cafe storage Rm

Lab ID-Version‡: 11556682-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 108, Joint compund-Chapel C3

Lab ID-Version‡: 11556683-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 109, 12" FT cream and clear glue-cafe storage Rm Lab ID-Version‡: 11556684-1

Sample Layers	Asbestos Content
Cream Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 110, 12" FT cream and clear glue-cafe storage Rm Lab ID-Version‡: 11556685-1

Sample Layers	Asbestos Content
Cream Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 111, 12" FT cream and clear glue-cafe storage Rm Lab ID-Version‡: 11556686-1

Sample Layers	Asbestos Content
Cream Floor Tile	ND
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 112, Wallboard-SW Quad offices Elec closet Lab ID-Version‡: 11556687-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 113, Wallboard-SW Quad loading dock Lab ID-Version‡: 11556688-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 114, Wallboard - Southwest Quad Back of Stage Lab ID-Version‡: 11561291-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 115, Joint compound Lab ID-Version‡: 11556689-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 116, Joint compound Lab ID-Version‡: 11556690-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 117, Joint Compound - Southwest Quad Back of Stage Lab ID-Version‡: 11561292-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 118, Pipe end cap caulk-mezzaine air handler piping Lab ID-Version‡: 11556691-1

Sample Layers	Asbestos Content
White Caulk	ND
Yellow Fibrous Material	ND
Composite Non-Asbestos Content:	15% Glass Fibers 2% Talc
Sample Composite Homogeneity:	Moderate

Location: 119, Pipe end cap caulk-mezzaine air handler piping Lab ID-Version‡: 11556692-1

Sample Layers	Asbestos Content
White Caulk	ND
Yellow Fibrous Material	ND
Composite Non-Asbestos Content:	15% Glass Fibers 2% Talc
Sample Composite Homogeneity:	Moderate

Location: 120, Pipe end cap caulk-mezzaine air handler piping Lab ID-Version‡: 11556693-1

Sample Layers	Asbestos Content
White Caulk	ND
Yellow Fibrous Material	ND
Composite Non-Asbestos Content:	15% Glass Fibers 2% Talc
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Sampling: 06-11-2020
Date of Receipt: 06-15-2020
Date of Report: 06-18-2020

ASBESTOS PLM REPORT

Location: 121, 12" Fl. tile cream with large pebble pattern and mastic (black)-mezzanine engineering break room

Lab ID-Version‡: 11556694-1

Sample Layers	Asbestos Content
Off-White Floor Tile	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 122, 12" Fl. tile cream with large pebble pattern and mastic (black)-mezzanine engineering break room

Lab ID-Version‡: 11556695-1

Sample Layers	Asbestos Content
Off-White Floor Tile	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 123, 12" Fl. tile cream with large pebble pattern and mastic (black)-mezzanine engineering break room

Lab ID-Version‡: 11556696-1

Sample Layers	Asbestos Content
Off-White Floor Tile	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

eurofins | EMLab P&K

Report for:

Sam Seneviratne
Advanced Geo, Inc.
3335 East Miraloma Avenue, Suite 142
Anaheim, CA 92806

Regarding: Project: Badillo Ent. Prop.; ACM Survey
EML ID: 2423128

Approved by:



Approved Signatory
Danny Li

Dates of Analysis:
Asbestos-EPA 1000 point count: 06-19-2020

Service SOPs: Asbestos-EPA 1000 point count (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1262)
NVLAP Lab Code 200757-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
17461 Derian Ave, Suite 100, Irvine, CA 92614
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Advanced Geo, Inc.
C/O: Sam Seneviratne
Re: Badillo Ent. Prop.; ACM Survey

Date of Submittal: 06-13-2020
Date of Receipt: 06-15-2020
Date of Report: 06-22-2020

ASBESTOS POINT COUNT REPORT

Location:	46 Ext. stucco (plaster) with paint (brown)-ext. soffit north		
Total Points Counted:	1000		
Lab ID-Version‡:	11571163-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Tan Stucco with Paint	Chrysotile	0	< 0.1
Layer Totals:		0	NA

Comments: Asbestos was detected, but no points counted. This sample was analyzed without gravimetric reduction prior to point counting. It is recommended that the sample be further analyzed by gravimetric point counting.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY

www.EMLabPK.com

EMLab P&K
A TestAmerica Company

002423128

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

CONTACT INFORMATION

Company:	Advance GeoEnvironmental	Address:	3335 E. Miraloma Ave., Anaheim, CA 92806
Contact:	Sam Seneviratne	Special Instructions:	Analyze to First Positive Only
Phone:	714.398.5168		Email: Sam.s@advgeoenv.com

PROJECT INFORMATION

Project ID:	Badillo Ent. Prop.		
Project Description:	ACM Survey		
Project Zip Code:		Sampling Date & Time:	6/11 & 12/2020
PO Number:	20-6029	Sampled By:	Sam S.

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1	See Attached logs	B	STD		
123					

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count (200 Point Count)	EPA Point Count (400 Point Count)	EPA Point Count (1000 Point Count)	Gravimetric Point Count	CARB 435 Method (Pre-crushed Sample)	CARB 435 Method (Regular Sample)	Lead Analysis		
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe	Sam Seneviratne	6/13/2020 11:45A		6/15/2020 9:07
B – Bulk	T – Tape				
D – Dust	R – Rock				
SO – Soil	O – Other:				

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/s/main/serviceterms.html

Copyright © 2015 EMLab P&K

AdvanceGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
1	Caulk between Conc. Tilt-up panels	Building South side	32 x 30'	NF	ND	14 21
2		East "				
3		West side				
4	Carpet Glue (Blue)	Main Ruby lobby				
5		South East Hallway				
7	Sink undercoat white	CI Rm P7	1 Sink			16
8	"	↓	1 "	17 Sinks		
9	BK		1 "			17
10	Carpet Glue (Yellow)	Rm 614				
11						
12						
13	Wallboard	Rm 614		NF	ND	
14		" "				
15		SE Hallway				
16	Joint Compound	↓				
17						
18		↓				
19	12" FT Gray (Self Adhesive)	Rm 613 SW Corner	12 ft	ND	ND	18
20	(Clear glue)	behind Stage	↓	↓		
21	↓					
22	4" Base Cove (Blk)	Through out Hallways	10,000	NF		18
23		& rooms	↓			
24						

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvanceGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
25	Base cove Glue (white)	Rm G3	10,000 LF	10,000 LF		
26	)	SE Hallway				
27		" "				
28	Vinyl Rubber Flooring	Rm G3	1,600 ±	NF	ND	19
29	(Gray)	)	)			
30						
31	Wall board	Rm G3 Screw fm				
32		Center east Hallway (S)				
33		" " " (N)				
34	Joint Compound					
35						
36						
37	2'x4' Suspended Ceiling Panels	Rm G3	1,600	F	D	
38		)				
39						
40	2'x2' Suspended Ceiling Panels	Rm 46		F	D	
41		) 43				
42		) 42				
43	Caulk (White) around Transom	Ext. North Fixed glass	48 panels ~ 294 LF	NF	ND	22
44	(window) Panels	window transom				
45	(AC)					
46	Ext. Stucco (plaster)	Ext. Soffit North	8,500 ±	NF	ND	23
47	w Paint (Brown)	" Wall N West				24
48		" " S "				

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvanceGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
49	Sink Undercoat (Gray)	Cl Rms B10-B-1	8 Sinks	NF	ND	28
50						
51						
52	Wallboard	Northeast Area - B9		NF	ND	
53		Hallway @ perimeter walls				
54		Kids' Theater				
55	Joint Compound					
56						
57						
58	Carpet Glue (Yellow)	Kids Theater	2500 ±	NF	ND.	
59						
60						
61	Ceramic tile 2"x2" Gray &	NE Quad Men's & Women's	800 ±	NF	ND	
62	Grout Gray	restroom walls				
63		& Floors				
64	Thin Set & Glue (White)					
65						
66						
67	Glue (Yellow) under	Rm B5	600 ±	NF	ND	29
68	Rubber floor Blk w					
69	white spots					
70	4" base cove (Gray) & Glue	Northeast Quad Walls	1,500 LF	NF	ND	30
71	(white)	of Hallways & Cl rms				
72						

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvanceGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
73	2'x2' ceiling panel (random fissure pattern)	Pavilion C4 storage (East)	400 ±	F	ND	31
74						
75						
76	Wallboard	Pav. C4 Southwest Room		NF	ND	
77		Zone 4S Server rm				
78		" " Auditorium				
79	Joint Compound			NF		
80						
81						
82	12" FT Gray & clear glue	Server Rm - Zone 4S	135 ±	NF	ND	32
83		" " "	"			
84		Storage rm "	75 ±			
85	Conc. (Terrazzo)	Zone 4S - Floor				
86	(only)	NW Exit Hallway				
87	"	SW " "				
88	Carpet Glue (Yellow)	Northwest office Area	4,500 ±	NF	ND	
89						
90						
91	Plaster composite	NW office Area walls	10,000 ±	NF	D (in Blue Closet)	33
92						
93						
94	Button board (Gypsum)		10,000 ±	NF	D	
95						
96						

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvanceGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
97	4" Base Cove Beige & White	NW office Areas	150 LF	NF	ND	34
98	" Brn + Brn Glue	"				
99	Brn	"				
100	2'x4' Suspended Ceiling panels		4500	F	D	35
101						
102						
103	Wallboard	NW office Area (Elec Rm)	10,000	NF	ND	
104		Cafe Storage rm	850 ±			
105		Chapel C3	15,000 ±			
106	Joint Compound	NW office Area (Elec Rm)	10,000	NF	ND	
107		Cafe Storage rm	850 ±			
108		Chapel C3	15,000 ±			
109	12" FT Cream + Clear glue	Cafe Storage rm	120 ±	NF	ND	36
110						
111						
112	wallboard	SW Quad offices Elec Closet				
113		" " Loading Dock Partition				39
114						
115	Joint Compound					
116						
117						
118	Pipe End Cap Caulk	Mezzanine Air Handler 14" OD	50 ea	NF	P	40,41
119		Piping "	"			
120		7" OD	25 ea			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

002423128

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 20-6029
Project Name: Badillo Ent. Prop
Location: 1211 Badillo St., West Covina, CA

Inspection Date: June 11 & 12, 2020
Inspector Name and License #: Sam Seneviratne CAC # 93-0886
Inspector Signature:

Sample #	Material Description	Material Location	Quantity (SF or LF)	Friable (NF or F)	Damage (ND, D, SD)	Photo #
121	12" Fl. Tile Cream w/ Large bubble pattern & Mastic (Black)	Mezzanine Engineering Break room	900 ±	NF	ND	43
122						
123						

Sam Seneviratne
6/12/2020

Page 6 of 6

APPENDIX E

Lead-Based Paint XRF Field Test Logs

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
1	STD	Test Block	Yellow	Calibrate	I	1.2	okay		
2						1.0			
3						1.0			
4	Metal	Fire Hydrant	Yel	South Main Entry		>9.9	P.		4
5	Conc	Curb	red	South parking by Main Entry		0.2			
6	Metal	Lamp post	Blk	" " Lot		0.2			
7	Asphalt	striping	Yel	" " "		0			
8			Blue			0			
9			White			0.1			
10	Metal	Lamp Poles	Blk	Site / Walkway lighting		0.2			
1	"	Handicap Sign	Blue	" "		0.1			
2	"	"	"	" "		0.1			
3		Fence	Blk	East parking lot		0.2			
4	Conc	Wall	Brown	South Perimeter Wall		0			
5	Metal	Down Spout	"	" " "		0			
6	Conc	Wall	"	East " "		0.3			
7	"	Curb	Red	" Parking lot		0			
8	Metal	Fence post	Blk	East Tot lot		0			
9	"	" Frame	"	" " "		0.2			
20	"	Screen	"	" " "		0.2			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
21	Wood	Shed Wall	Brown	Tot lot storage shed	P	0.3			
2	"	" "	Red	" - " " Border	P	0.1			
3	Metal	Door Frame	Blk	East side Double door	I	0.4			
4		"	"	" - " "		0.2			
5		Angle iron Frame	Brown	" " "		1.0			5
6 R		" "	"	" " " Retest		1.0		20 ft / column	
7	Metal	pole	Maroon	Tot lot Sun Shade		0.0			
8	"	Screen	Green	" " play Equipment		0.2			
9	Plastic		Blue			0.0			
30	Metal	Bench Seat	Red	" " Bench		1.0		20ft x 2	6
1		Play EQuip	Green	" "		0.5			
2 R		" "	"	" " Retest		0.4			
3			Blue	"		0.1			
4		Frame	Maroon	" " play EQuip		0.3			
5		Bench Seat	Green	" " Bench SE		1.0	P	20ft x 2	7
6	Metal	Lamp Post	Blk	" " S.E Light (A lamp)	I	1.0	P	30ft x 18	
7 R	"	" "	"	" " - " Retest		1.0			
8	"	Swing Frame	Maroon	" " Swings		0.4			
9	"	Fence Post	Blk	" " Fencing		0.0			
40		Lamp post	"	South Parking (A lamp)	I	1.0			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
1	Metal	Lamp post (2 lamp)	Blk	East Parking Area	2	0.3	N		
2	"	" "	"	" " "		0.4			
3	"	Gate	"	Southeast entry		0.4			
4	"	Fence post 6"	"	" " Fence		1.0		10 LF x 2	8
5	Conc	Curb	Red	" parking lot		0			
6	Metal	Fence	Blk	Site Fencing		0.5			
7 R	"	Fence post 6"				1.0			8
8	"	" " 3"		" "		0.4			
9	Metal	Lamp post	"	" Lighting (1 lamp)		0.4			
10	Metal	Bollard	Yellow	SE parking around FH	F	1.4		5'0D x 3' x 4	9
11	"	Gate post	Blk	NE entry		0.3			
12 R	"	west. " "	"	" " "		0.3			
13	"	" "	"	North Center entry		0.2			
14	"	1 Lamp post	"	NE parking area		0.2			
15	"	4 " " Wood	"	SW parking area		1.0		30' x 15	10
16	Metal	Fire hydrant	Red	NW Parking lt near sidewalk		1.0		~~3~~ 5 hydrants	11
17	"	Gate Post	blk	NW parking lt		0.0			
18	"	Gate	"	"		0.0			
19	Mtl	Handrail	"	W side of bld., N half		0.3			
20	Asphlt	Striping	Ylw	"		0.2			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
61	Concrete	Wall	brwn	W side of building, N half		0.0			
2	Mtl	Door frame	blk	"		0.0			
3	"	Door	blk	"		0.0			
4	Stucco	Wall	brwn	W side of building, center		0.5			
5	Mtl	Single Door	blk	"		0.3			
6	Mtl	Awning frame	blk	W side entrance		1.0		200 sf	12
7	Mtl	Corrugated wall	brwn	W side bldg, center		0.1			
8	Mtl	Stair Step	gray	"		1.0		100 sf	13
9	Mtl	hand rail	blk	"		0.6			
70	Mtl	DBL door frame	"	"		0.0			
1	"	DBL Door	"	"		0.5			
2	"	Hnd rail	"	W side bldg, S side		0.0			
3	"	Bollard 5"	"	"		0.6			
4	"	Roll up Door Frame	"	"		0.3			
5	"	Roll up Door	"	"		0.6			
6	Mtl	Monument Sign	brwn	North Side of Building		0.2			
7	"	Downspout	blk	"		0.3			
8	"	Column	"	"		1.0			
9	"	Main fire sprinkler valve housing	Red	"		0.0			
80	Mtl	Awning Colum	Blk	S side bldg entrance		0.3			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
81	Metal	Fire Ext. Cabinet	Gray	South Main Entry	I	0.5	N		
2	"	" " Door	"	" " "		0.5			
3	"	Door Frame	Blk	" " " - (2 4		0.1			
4	"	"	"	" " " "		0.2			
5	WB	Wall	White	" " Entry Lobby		0			
6	"	"	Gray	" " Entry "		0			
7	"	"	Purple	SE Hallway		0			
8	"	"	Yellow	Clrm, P7		0			
9	Porcelain	Sink	White	" " P7		0			
90	"	Toilet	"	" "		0			
1	Wood	Door	Green	" " P7 Ext,		0.1			
2	Metal	Column	Black	SE Hallway		0.3			
3 R	"	"	"	" "		0.3			
4	"	Beam	White	Roof Beam (I)	I	1.3	P		18
5	"	Deck	"	" Deck (Corrugated)	I	0.1	N		
6	"	Pipe	"	Domestic Water Pipe (3" OD)		0.2			
7	"	"	"	" " (7" OD)		0.1			
8	"	Safe Door	"	S lobby		0.6			
9	WB	Column Enclosure	"	Auditorium	I	0.3			
100	Metal	Fire Ext. Equipment Cabinet	"	"		0.2			

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
101	Metal	F.E. Cabinet Door	White	Auditorium	I	0.4			
2	Wood	Double Door	Gray	" N Hallway		0.1			
3	Metal	" " Frame	Blk	"		0.2			
4	"	Single " Frame	"	" " "		0.2			
5	WB	Wall	Blue	Center East Hallway	I	0			
6	"	"	Red	" " "	I	0			
7	"	"	White	Rm 4		0			
8	Metal	Door Casing	Blk	" "		0.1			
9	"	Double Door "	"	Hallway		0.1			
110	Wood	Door	Gray	"		0			
1	"	Awning	Blk	Main Hallway Entry to Admin office		0.1			
2	Metal	Exit Sign	White	" "		0.1			
3	Std	Cal Block	Yellow	Calibrate	I	1.0			
4	"	"	"	"	"	1.0			
5	"	"	"	"	"	1.0			
6/12/20 6	"	"	"	"	"	1.0			
7	"	"	"	"	"	1.0			
8	"	"	"	"	"	1.0			
9	Aluminum	Window Transom	Brown	Blue Along North Ext. Wall	I	5.6, 4.8	P	8'x 3' x 48 Pcs	25, 26
120	Steel	Column	Brown/Blk	" " " " Wall	I	1.0	P	19 Col x (30" x 12" H)	26, 27

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
121	metal	Door Frame	Green	Northeast Hallway Quad	I	0.4	+		
2	wood	"	Dk Blue	" "		0.0			
3	WB	Wall	Green	" "		0			
4	WB	Wall	White	" " "		0			
5	metal	Door Frame	"	" RR's mens		0.3			
6	wood	"	Blk	" " "		0			
7	GI Metal	Sink	White	" "		0			
8	Porcelain	Toilet	"	" "		0.1			
9	2'x2' CT	Floor/Walls	Gray	" "		0.1			
130	metal	Double Door Frame	White	Rm B5		0			
1	WB	Wall	Red	Hallway		0			
2	metal	Door Frame	White	Rm B5 Ext Door		0.2			
3	"	"	"	" " " "		0.4			
4	CT 6"	Floor	"	Kitchen Adjacent Hallway		0.3			
5	WB	Wall	"	" " "		0.2			
6	Metal	Door Frame	Blk	" " "		0.5			
7	Cove	Ext Wall	Brn	Courtyard Wall		0.4			
8	CT 14"	Floor	Gray	Zone 45 RR Floor		0.2			
9	CT 1"	Wall	"	" " " Walls		0.0			
140	Porcelain	Sink	White	" " "		0			

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
141	Porcelain	Urinal	White	Zone 45 RR	I	0	N		
2	"	Toilet	"	" " "		0			
3	Wood	" Partition	"	" " "		0			
4	WB	Column	"	" " Auditorium		0.2			
5	8" CT	Floor	off White	North West offices - RR		0.3			
6	4" CT	Walls	" "	" " " "		0.2			
7	Porcelain	Sink	White	"		0			
8		Toilet		"		0			
9		Urinal		"		0			
150	metal	partition	Brown	"		0.4			
1	WB	Wall	White	" Walls		0			
2	metal	Door Frame	White	NW office ~~walls~~ entry double door		0.3			
3	Wood	"	"	" " "		0.0			
4	metal	Breaker Box	White	" " "		0.1			
5	CT 2"	Wall/Floor	Gray	Cafe RR		0			
6	Porcelain	Sink	White			0.1			
7	"	Toilet	"			0			
8	WB	Wall	"			0			
9	CT 2"	Wall/Floor	Gray	Chapel C2 RR's		0			
160	Porcelain	toilet	White	" " "		0			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
161	Porcelain	Sink	White	Chapel C2 RR's	I	0			
2	WB	Wall	"	" " "		0			
3	Metal	Door Jamb	White	" C3 West		0.2			
4		Double " "	Blk			0.0			
5	WB	Wall	Green			0.0			
6	CT 1"x1"	Floor/Steps	Gray	Baptismal Area		0			
7			Blue	"		0			
8	Metal	Hand rail	orange	"		0			
9	WB	Wall	"	"		0			
170	Metal	Door & Frame	off White	"		0.2			
1	Porcelain	Sink oval	White	" RR. mens		0.2			
2		" Square	"	" " "		0			
3		Toilet	"	" " "		0.1			
4	Wood	partition	Blue	" " "		0.0			
5	WB	Wall	Gray	" " "		0.0			
6	GI Metal	Cust. Sink	White	" " Utility rm		0.0			
7	Metal	Hand rail	Blk	Back of Stage		0.2			
8	WB	Wall	"	" " "		0.0			
9	Metal	Loading Stage	orange	Loading Dock	P	3.5	P	25 ft	37
180		Hand rail	Gray	" " Stairs		0			

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

AdvancedGeo
An Employee-Owned Company

Lead-Based Paint XRF Testing Data Sheet

Project Number: 20-6029
Project Name: Badillo Ent. Prop
Project Location: 1211 Badillo St, West Covina, CA

Inspection Date: June 11 & 12. 2020
Inspector: Sam Seneviratne, DPH # 9658
XRF Serial Number: RMD LPa-1B #1077

Sample #	Substrate	Component	Color	Description of Sample Location	Condition	XRF Reading (mg/cm²)	Pos = LBP Neg = Not LBP	Approximate Quantity	Photo Number
181	Metal	Stair Step	Gray	Loading Dock Steps	P	1.0	P	30 ft	38
2		" Stringer		" " "	P	1.5	P	"	
3		Handrail		" "	I	0.3	N		
4		Door Frame		Storage Rm Loading Dock	I	0.2			
5	Wood	"		" " "	I	0			
6	Wood	Stair Stringer		Stairs to Mezzanine (South)	I	0.1	N		
7	Metal	" Handrail	Blk	" " "	I	1.0	P	50 ft	39
8	"	" "		Stairs to Mezzanine (North)	I	2.1	P	150 ft	42
9		" Step		)		3.6		)	↓
190		" Stringer		)		4.8		)	↓
1	WB	Wall	Blue	Emp Break Area Mezz		0.0	N		
2	Metal	Door Frame	Blk	" " "		0.1			
3	"	Elec Panel	Gray	Mezz Hallway		0.1			
4	"	Support Beam	Blk	" "		0.0			
5	WB	Wall	Gray	" "		0.0			
6	Cal Block	Cal Block	Yellow	Calibrated		1.0			
7	)	)	)	)		1.0			
8						1.0			
9									
0									

Nationwide Capabilities
Telephone (800) 511-9300 • Fax (888) 445-8786

Appendix F

Noise Impact Analysis

Noise Impact Analysis – DAX9, West Covina, California Delivery Station

June 22, 2021

Prepared For:

Glenn Lajoie, AICP
Vice President/Senior Project Manager
Psomas

Dear Mr. Lajoie,

NV5 is pleased to present the Noise Impact Analysis for the Delivery Station DAX9 located in West Covina, CA. Please refer to the report for our findings and conclusions.

If you have any questions, please contact Cecile Felsher at (310)756-9693 or by email at cecile.felsher@nv5.com.

For and on behalf of NV5-Alta,



Cecile Felsher, CIH
Senior Consultant

3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807

TABLE OF CONTENTS

1 INTRODUCTION 6

1.1 Noise Impact Study Purpose and Objectives 6
1.2 Facility Description and Operations 6

2 FUNDAMENTALS OF NOISE 9

2.1 Sound, Noise and Acoustics 9
2.2 Frequency 9
2.3 Sound Pressure Levels and Decibels 9
2.4 Addition of Decibels 10
2.5 Human Response to Changes in Noise Levels 10
2.6 Sound Propagation 10
2.7 Measurement of Sound 10

3 COMMUNITY STANDARDS 11

3.1 Noise Standards 11
3.1.1 West Covina, General Plan 11
3.1.2 West Covina, Municipal Code 14
3.2 Vibration Standards 14
3.3 Significance Thresholds 15

4 EXISTING AMBIENT NOISE ENVIRONMENT 16

5 FUTURE COMMUNITY NOISE IMPACTS 18

5.1 On-site operational noise impacts 18
5.1.1 Noise Sources 19
5.1.2 Sensitive Receivers 22
5.1.3 Impact Analysis 30
5.2 Off-site traffic noise impacts 32
5.2.1 Off-Site Traffic Noise Prediction Model Inputs 32
5.2.2 Off-Site Traffic Noise Impact 33
5.3 Construction Noise and Vibration Impact 34
5.3.1 Construction Noise Sources 34
5.3.2 Construction Noise Impact 35
5.3.3 Ground-borne Vibration During Construction 36

6 MITIGATION MEASURE 36

7 REFERENCES 37

TABLE OF EXHIBITS

Exhibit A – Project Location 7
Exhibit B –Site Concept Plan 8
Exhibit C – A-weighted Common Noise Level Scale 9
Exhibit D – City of West Covina Land Use/ Noise Compatibility Matrix 13
Exhibit E – Ambient Noise Measurement Location 16
Exhibit F – Long-Term Hourly Noise Levels 18
Exhibit G –Operations Noise Level Projections 25
Exhibit H –Operations Noise Level Contours (Daytime) 26
Exhibit I –Operations Noise Level Contours (Evening) 27
Exhibit J – DAX9, Operations Noise Level Contours (Nighttime) 28
Exhibit K – DAX9, Operations Noise Level Contours (Lden) 29

TABLE OF TABLES

Table 1 - Summary of Short-Term Noise Measurements (dBA) 17
Table 2 - Summary of Long-Term Noise Measurements (dBA) 17
Table 3 - Source Sound Power Levels in Octave Band Format (dBA, re 10-12W)- Fleets 21
Table 4 - Source Sound Power Levels – Parking Lots 21
Table 5 - Source Sound Power Levels in Octave Band Format (dBA, re 10-12W)- HVACs 22
Table 6 - Receiver Predicted Noise Levels 23
Table 7 - Receiver Predicted Noise Levels from Truck Path 24
Table 8 – Off-site Roadways 32
Table 9 – Average Daily Traffic Volumes with Time of Day and Vehicle Splits 33
Table 10 – Traffic Noise Levels 34
Table 11 – Maximum Noise Levels and Estimated Usage of Typical Construction Equipment 35
Table 12 – Predicted Construction Noise Levels at the Nearest Sensitive Receptors 35

LIST OF APPENDICES

Appendix A – Ambient Noise Measurements

Appendix B - SoundPlan Essential - Contributions

Appendix C - TNM Traffic Model

Appendix D - RCNM Construction Model

Appendix E - Trip Generation Count

1 INTRODUCTION

1.1 Noise Impact Study Purpose and Objectives

This noise impact analysis was completed to evaluate the potential noise impacts and identify possible noise mitigation measures associated with the proposed facility located in West Covina, California. This study evaluates the long-term noise impacts on the residential properties located near the site, from the on-site operations of the proposed facility and off-site traffic related to the site's activities.

1.2 Facility Description and Operations

This proposed facility is located at 1200 E. San Bernardino, West Covina, California. The site is surrounded by San Bernardino Road on the north and Badillo Street on the south. East of the site is Lark Ellen Village Apartments and west of the site are other commercial and light industrial facilities. The current building is being used as a church and a school.

The nearest sensitive receptor is the Lark Ellen Village, located approximately 30 feet east of the site and 830 from the truck loading docks. The next closest sensitive receptors are residential communities to the north and south of the site, approximately 95 feet and 115 feet from the site, respectively. The south residential community is approximately 350 feet from the truck loading docks and the north residential community is about 550 feet from the loading docks. Southeast of the site is Grovecenter Elementary School, approximately 300 feet away from the site and 1,000 feet from the truck loading docks.

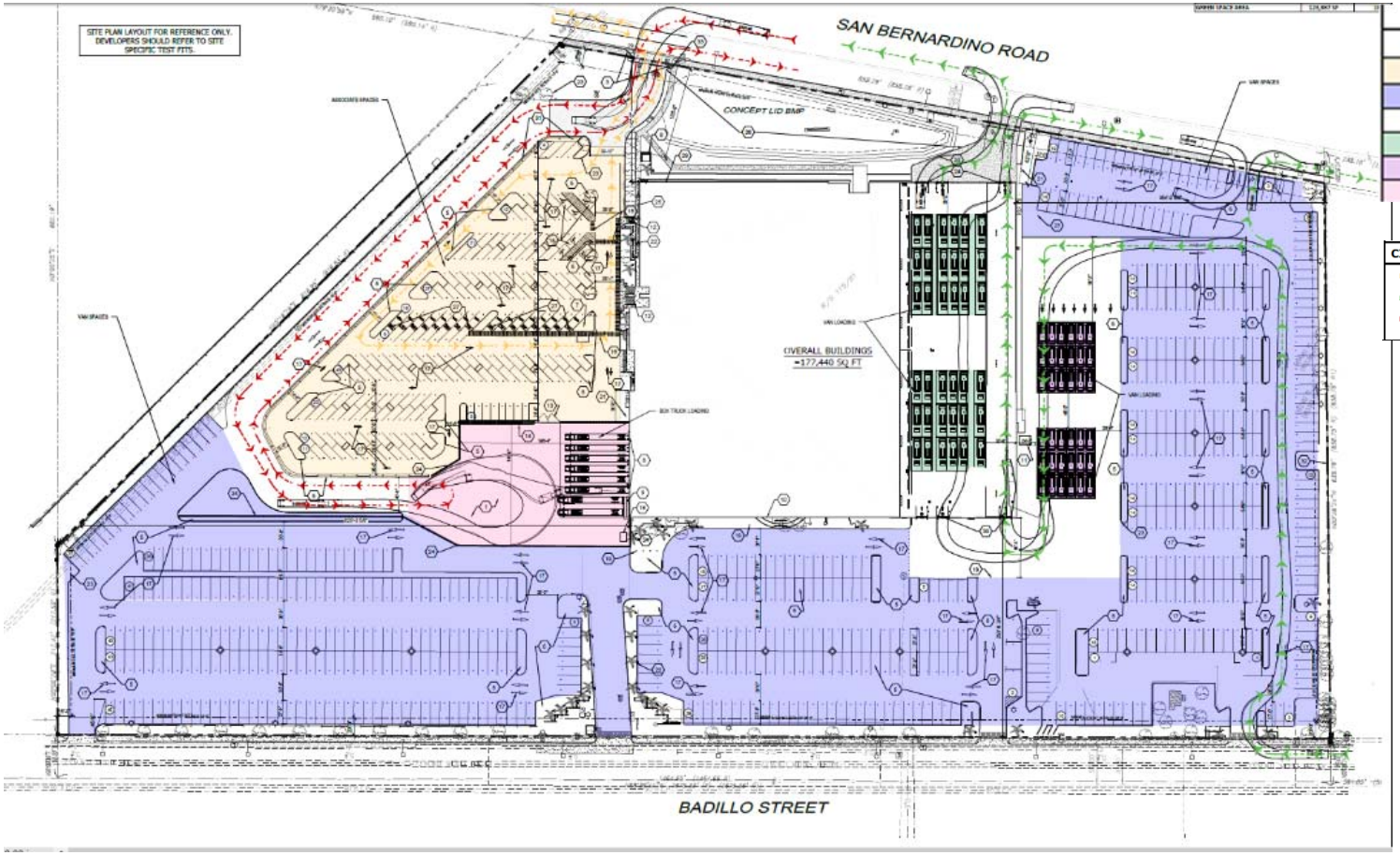
Based on the Concept Plan, the facility will consist of a 177,440 square foot building located in the northern center of the site. There will be a van parking lot on the southern and eastern portions of the site. The western portions of the property will have parking spots reserved for associates and DSP drivers. The truck loading docks will be located southwest of the proposed building. A 12-foot tall wall is planned to be installed south of the truck court. Van staging will be taking place east of the building and van loading will be taking place inside the building.

Trucks will enter the site using the northwest driveway on San Bernardino Road and drive south and east to the loading docks. They will leave the site using the same driveway. Vans will enter the site using the southeast driveway from Badillo Street to either park in van parking areas or to drive north and west for van staging and loading. Vans will exit the facility using the northeast driveway onto San Bernardino Road. Employees will enter the employee parking areas using the northwest driveway from San Bernardino Road and exist the facility using the same driveway.

Exhibit A – Project Location



Exhibit B –Site Concept Plan



PARKING BREAKDOWN

PARKING	PROPOSED ON-SITE
ASSOCIATE SPACES (9'x18')	185
VAN SPACES (11'X27')	626
TOTAL PARKING	811
UTR / VAN LOADING	36
VAN STAGING	36
TRAILER / BOX TRUCK LOADING	8

CIRCULATION LEGEND

- ASSOCIATE TRAFFIC FLOW DIRECTION
- DSP / FLEX TRAFFIC FLOW DIRECTION
- TRUCK TRAFFIC FLOW DIRECTION

2 FUNDAMENTALS OF NOISE

2.1 Sound, Noise and Acoustics

Sound is a mechanical radiant energy that is transmitted by longitudinal pressure waves in a material medium, such as air in the case of traffic and stationary noise, and is the objective cause for human hearing. Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. Noise is defined as an unwanted sound.

2.2 Frequency

When sound travels through air, the atmospheric pressure varies periodically. The number of pressure variations per second is called the frequency of sound and is measured in Hertz (Hz) which is defined as cycles per second. Our hearing systems are not equally sensitive to all sound frequencies. Thus, not all frequencies are perceived as being equally loud at the same sound pressure level, and when calculating overall environmental noise ratings it is necessary to consider sounds at some frequencies as more impactful than those at other frequencies. Low-frequency sounds are low in pitch (bass sounding) and high-frequency sounds are high in pitch (squeak). The human ear can hear from a bass pitch starting at 20 Hz all the way to the high pitch of 20,000 Hz.

2.3 Sound Pressure Levels and Decibels

Sound pressure level (SPL or Lp) is a logarithmic measure of the effective pressure of a sound relative to a reference value. The sound pressure levels are measured in decibels abbreviated dB. The human ear is not equally sensitive to sound at all frequencies. The “A-weighted scale,” abbreviated dBA, reflects the normal hearing sensitivity range of the human ear. On this scale, the range of human hearing extends from approximately 3 to 140 dBA. Exhibit C provides examples of A-weighted noise levels from common sounds.

Exhibit C – A-weighted Common Noise Level Scale

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	— 110 —	Rock band
Jet fly-over at 1000 feet		
	— 100 —	
Gas lawn mower at 3 feet		
	— 90 —	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	— 80 —	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	— 70 —	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	— 60 —	
		Large business office
Quiet urban daytime	— 50 —	Dishwasher next room
Quiet urban nighttime	— 40 —	Theater, large conference room (background)
Quiet suburban nighttime		
	— 30 —	Library
Quiet rural nighttime		Bedroom at night, concert
	— 20 —	
		Broadcast/recording studio
	— 10 —	
Lowest threshold of human hearing	— 0 —	Lowest threshold of human hearing

dBA = A-weighted decibels; mph = miles per hour

Source: California Department of Transportation, *Technical Noise Supplement*, September 2013.

2.4 Addition of Decibels

Because decibels are on a logarithmic scale, sound pressure levels cannot be added or subtracted by simple plus or minus addition. To add two or more noise levels, if the difference between the highest and next highest noise level is: 0–1 dB then add 3 dB to the higher level to give the total noise level, 2–3 dB then add 2 dB to the higher level to give the total noise level, 4–9 dB then add 1 dB to the higher level to give the total noise level, 10 dB and over, then the noise level is unchanged (i.e. the higher level is the total level)

2.5 Human Response to Changes in Noise Levels

In general, the healthy human ear is most sensitive to sounds between 1,000 Hz and 5,000 Hz, and it perceives a sound within that range as being more intense than a sound with a higher or lower frequency with the same magnitude. For purposes of this report as well as with most environmental documents, overall sound levels are determined by applying frequency weighted adjustments to spectral sound levels. The A-scale weighting scale is used to mimic human hearing response, so sound is reported in terms of A-weighted decibels (dBA). Typically, the human ear can barely perceive a change in noise level of 3 dB. A change in noise level of 5 dB is readily perceptible, and a change of 10 dB is perceived as being twice or half as loud.

2.6 Sound Propagation

Sound is transmitted in air by pressure variations from its source to the surroundings. Sound levels will decrease as the distance between the source and the receiver increases. While absorption by air is one of the factors attributing to the weakening of a sound during transmission, distance plays a more important role in noise reduction during transmission. Depending on the source of the sound for every doubling of distance the level will be reduced between 3 and 6 dB. The reduction of a sound is called attenuation.

Other factors for noise attenuation are ground absorption and shielding. Noise models use hard site (reflective surfaces) and soft site (absorptive surfaces) to help calculate predicted noise levels. Hard site conditions assume no excessive ground absorption between the noise source and the receiver. Soft site conditions such as grass, soft dirt or landscaping attenuate noise at a rate of an additional 1.5 dB per doubling of distance.

In order to break the line of sight, walls between a noise source and a receiver are often used for noise attenuation to reduce the noise levels at the receiver. Additional barriers such as buildings, hills and heavy vegetations can also reduce the noise levels. Typically, walls will reduce noise levels by 5-10 dB. The higher the wall is, the higher the noise reduction will be.

2.7 Measurement of Sound

There are many ways to evaluate noise measured over periods of time. Equivalent continuous sound level (Leq) is the total sound energy measured over a stated period of time. LAs(Max) is the maximum level with A-weighted frequency response and slow time constant. The Community Noise Equivalent Level (CNEL) is the LAeq (equivalent noise level) over a 24-hour

period with a penalty of 5 dB for noises occurring from 7:00 p.m. to 10:00 p.m. and a penalty of 10 dB for noises occurring from 10:00 p.m. to 7:00 a.m. The noise penalty is added to the noise events during the evening and nighttime hours when individuals are more sensitive to noise.

2.1 Ground-Borne Vibration

Vibration is periodic motion of a solid medium in alternately opposite directions from the position of equilibrium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. The peak particle velocity (PPV) or the root mean square (RMS) velocity is usually used to describe vibration amplitudes. The PPV is defined as the maximum instantaneous peak or negative peak of the vibration wave. The RMS is defined as the square root of the average of the squared amplitude of the signal. PPV is the most commonly used descriptor for evaluating potential building damage, whereas RMS is generally used to assess human response. Typically, ground-borne vibration, generated by man-made activities, attenuates rapidly with distance from the source of vibration. Man-made vibration issues are therefore usually confined to short distances (i.e., 500 feet or less) from the source.

Operation of construction equipment, maintenance operations, and traffic traveling on roadways can generate ground-borne vibration. However, if the roadway is smooth, the vibration from traffic is typically not perceptible.

3 COMMUNITY STANDARDS

3.1 Noise Standards

3.1.1 West Covina, General Plan

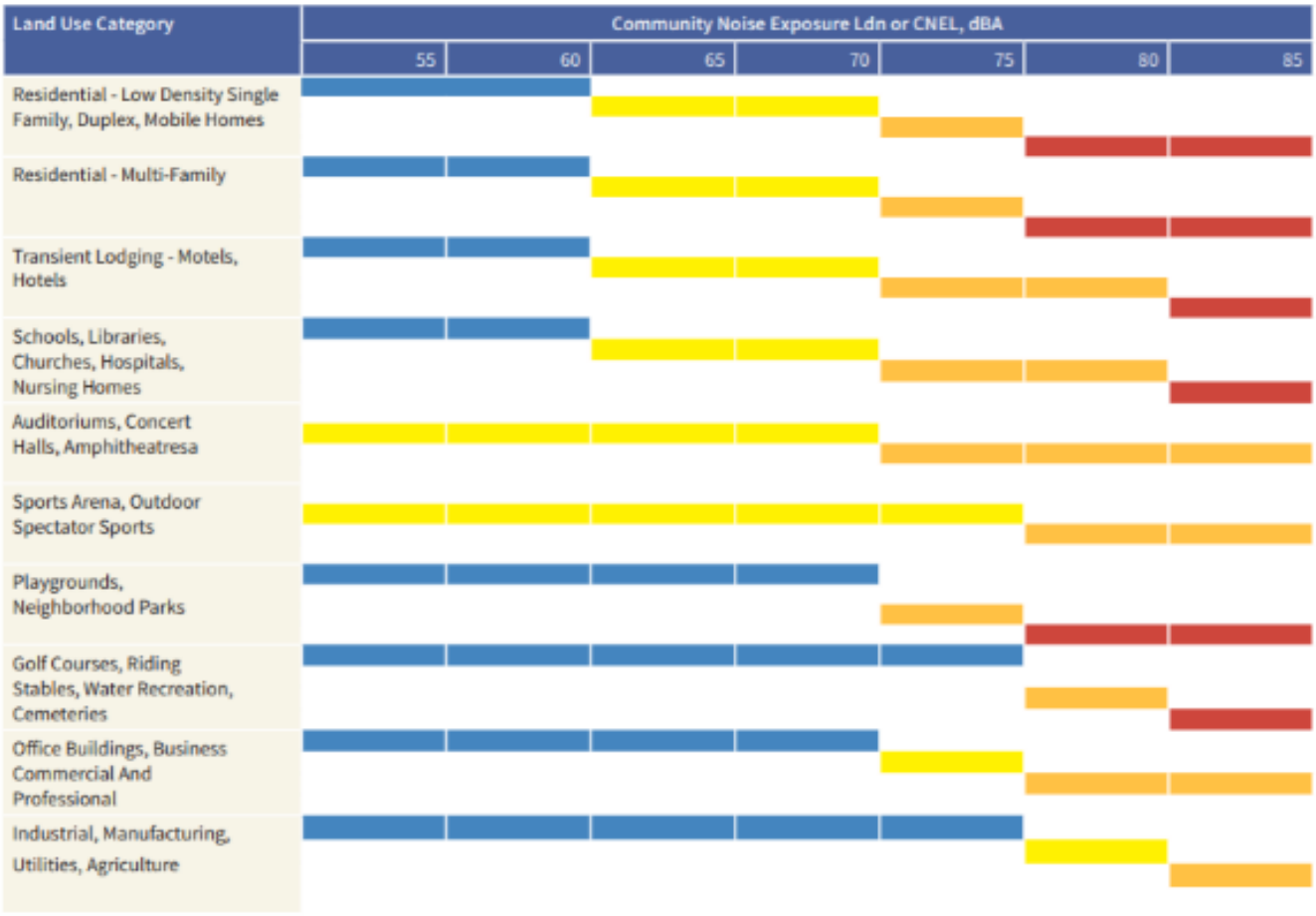
The City of West Covina General Plan Noise Element provides guidance on improving the safety and health of the community and abatement of excessive noise.

In 1974, the EPA published a document entitled "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare With an Adequate Margin of Safety." The EPA "levels document" does not constitute a standard, specification or regulation, but identifies safe levels of environmental noise exposure without consideration for economic cost for achieving these levels. The West Covina General Plan includes the For Residential properties, the Environmental Protections Agency Noise Guidelines recommends 45 dBA L_{dn} for indoor noise levels and 55 dBA L_{dn} for outdoor noise levels.

The FHWA has adopted and published noise abatement criteria for highway construction projects. The noise abatement criteria specified by the FHWA are presented in the City of West Covina General Plan in terms of the maximum one-hour Leq. The FHWA noise abatement criteria basically establish an exterior noise goal for residential land uses of 67 Leq and an interior goal for residences of 52 Leq. The noise abatement criteria applies to private yard areas and assumes that typical wood frame homes with windows open provide 10 dB noise reduction (outdoor to indoor) and 20 dB noise reduction with windows closed.

The noise section provides information on the existing noise environment and includes goals, objectives, policies, and implementation programs to ensure an acceptable noise environment. The predominant noise source in most of the City is motor vehicles on roadways within the City. Commercial activities, including air compressors and commercial compactors, landscaping maintenance equipment, and daily activities also contribute to noise levels. Although two rail lines are located just outside the City (the San Bernardino Metrolink line to the north and a freight line and the Riverside Metrolink line to the south), no major rail lines exist within City limits, and noise from these rail lines, although audible, is not a major source of noise in the community. No airports are located within or immediately adjacent to West Covina, and aircraft noise is also not a major noise source, although certain aircraft related noise (such as from low-flying helicopters) can be of concern. West Covina does not have major “point sources” of noise, such as large factories. The general plan outlines land use compatibility standards as a guideline for locating new land uses, which have been adopted from the California Office of Noise Control. The land use compatibility guidelines are outlined in Exhibit D. Per Policy 6.23 (a). new developments shall reduce exterior noise levels for any usable outdoor area to the “normally acceptable range” as shown in Exhibit D. Policy 6.24 requires that new developments analyze potential noise impacts on nearby noise sensitive receptors and as feasible require noise mitigation to address any identified significant impacts.

Exhibit D – City of West Covina Land Use/ Noise Compatibility Matrix



Normally Acceptable. Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

Conditionally Acceptable. New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

Normally Unacceptable. New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

Clearly Unacceptable. New construction or development should generally not be undertaken.

3.1.2 West Covina, Municipal Code

The West Covina Code of Ordinances, Chapter 15, Article IV, Section 15, establishes noise requirements for the city. Section 15-85 establishes that it shall be unlawful for any person within any residential zone of the city to willfully make or continue or cause to be made or continued, any loud, unnecessary or unusual noise which unreasonably disturbs the peace and quiet of any residential neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing in the area. Any noise that is plainly audible at a distance of fifty (50) feet from any property, building, structure, or vehicle in which it is located shall be presumed to be a noise created in violation of the ordinance.

Per Chapter 26, Article X, Section 26-580, no portion of the property shall be used in such a manner as to create a nuisance to adjacent properties, such as but not limited to vibration, sound, electro-mechanical disturbance or radiation, air or water pollution, dust, emission of odorous, toxic, or noxious matter.

The Noise Ordinance (Section 15-95) prohibits any construction activities between the hours of 8pm to 7am (or 6am for unloading and loading activities) that causes the noise level at the property line to exceed the ambient noise level by more than 5dB, unless a permit has been obtained, or in the case of emergency work as defined in the Noise Ordinance.

Per Section 1-37,

(a) Whenever in this Code or in any ordinance of the city an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or whenever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, and no specific penalty is provided therefore, the violation of any such provision or the failure to perform any such act shall be punished by a fine not exceeding $1,000 or by imprisonment not to exceed 6 months or by both such fine and imprisonment at the discretion of the court.

(b) Violation of any provision of this Code or city ordinance shall be a misdemeanor unless by such provision it is made an infraction. Such a violation may be prosecuted in the name of the people of the state, or redressed by civil action. Every violation determined to be an infraction is punishable by a fine. Each day any such violation or failure to perform such act shall continue shall constitute a separate offense, unless otherwise specifically provided.

3.2 Vibration Standards

Neither the City of West Covina Municipal Code nor the General Plan has specific and/or quantitative regulatory standards for construction or operational vibration sources. In lieu of quantified vibration criteria, impacts are defined as significant if they exceed the Federal Transit Administration's (FTA) standards for vibration (as found in "Transit Noise and Vibration Impact Assessment" [FTA 2006]). For structural damage, FTA guidelines define an impact as significant if it exceeds 0.20 inch/second for nonengineered timber and masonry buildings, and 0.30 inch/second for engineered concrete and masonry (no plaster) buildings. For vibration

annoyance, an impact is defined as significant if it exceeds 78 VdB during the day at a residential receiver or if it exceeds 84 VdB at commercial/office land uses.

3.3 Significance Thresholds

For the purpose of this study the following threshold of significance will be used to determine the noise and vibration impact on the nearest sensitive receptors:

Construction Noise

- Construction activities between the hours of 7:00 am and 8:00 pm.

- The City of West Covina does not have a maximum numeric limit for noise levels related to construction activities at the sensitive receptors. The Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment provides an eight-hour construction noise level threshold of 80 dBA Leq during daytime at residential (noise-sensitive) uses, and 85dBA during the daytime at commercial uses. Therefore, those thresholds were used to evaluate the need of mitigation measures during construction activities.

Construction Vibration

- 78 VdB during the day at a residential receiver.

Off-Site Traffic

- An increase of less than 3 dBA is barely perceptible to people, while a 5-dBA increase is readily noticeable (Caltrans, 2013).

On-Site Operational Noise

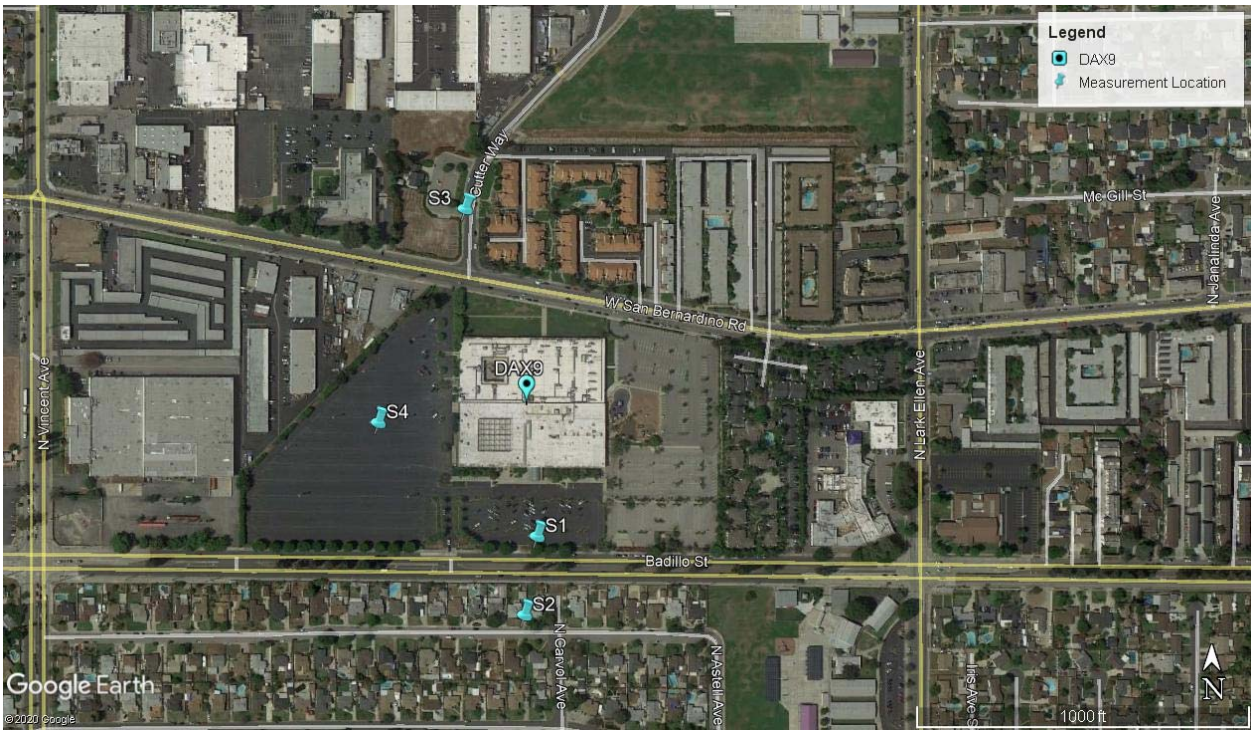
- Neither the West Covina Municipal Code nor the West Covina General Plan include a quantitative noise standard relevant to operational activities associated with the proposed site. Typically, a change in noise level of 5 dB is readily perceptible and therefore may be perceived as a noise disturbance. Therefore, the proposed project would have a significant impact related to operational noise if operational noise levels exceed 5 dBA at the sensitive receptors near the project site.

4 EXISTING AMBIENT NOISE ENVIRONMENT

Ambient noise or background levels are the all-encompassing noises associated with a given environment at a specific time, usually a composite of sound from many sources from many directions, near and far without any particular dominant sound. The existing noise environment at the proposed facility and in the surrounding area results primarily from vehicular traffic along San Bernardino Road and Badillo Street and noises from the nearby industrial facilities.

NV5 conducted short-term and long-term noise level measurements on October 6th through 7th, 2020 at four locations in the vicinity of the proposed site as shown in Exhibit E.

Exhibit E – Ambient Noise Measurement Location



All the measurements were conducted using a Larson Davis 831c – Type 1 Sound Level Meter (SLM). The SLM was calibrated before and after each measurement of noise levels; the measurement was made using the A-weighting scale, the SML was placed 5 feet off the ground. Three 15-minute noise level measurements were taken at S1, S2, and S3 during daytime hours and analyzed with Leq. A 24-hour noise level measurement was taken at S4 and analyzed with Leq and LAmax. At nighttime, the main sources of noise are from vehicular traffic. The maximum noise levels measured shown in Exhibit F, included noise such as loud motocycles accelerating.

Table 1 summarizes the results of the short-term measurement for each of the locations. Table 2 summarizes the results of the 24-hour noise level measurement.

Table 1 - Summary of Short-Term Noise Measurements (dBA)

ID	Sample Location	Sample Time	Description	Leq (dBA)	LSmax (dBA)
1	1211 Badillo Street: South Parking Lot	8:37 A.M. - 8:52 A.M.	Noise from automobiles, motorcycles, semitrucks, airplanes, animals, and pedestrians	67.2	85.8
2	1233 Elgenia Street	9:10 A.M. – 9:25 A.M.	Noise from automobiles, animals, and pedestrians	50.6	62.9
3	529 Cutler Way	9:41 A.M. – 9:56 A.M.	Noise from automobiles, semitrucks, motorcycles, animals, trains, industrial activities, and pedestrians	61.9	81.0

dBA = A-weighted decibels
Leq = equivalent continuous level over a period of 15 minutes
LS max = maximum level and slow time constant over a period of 15 minutes

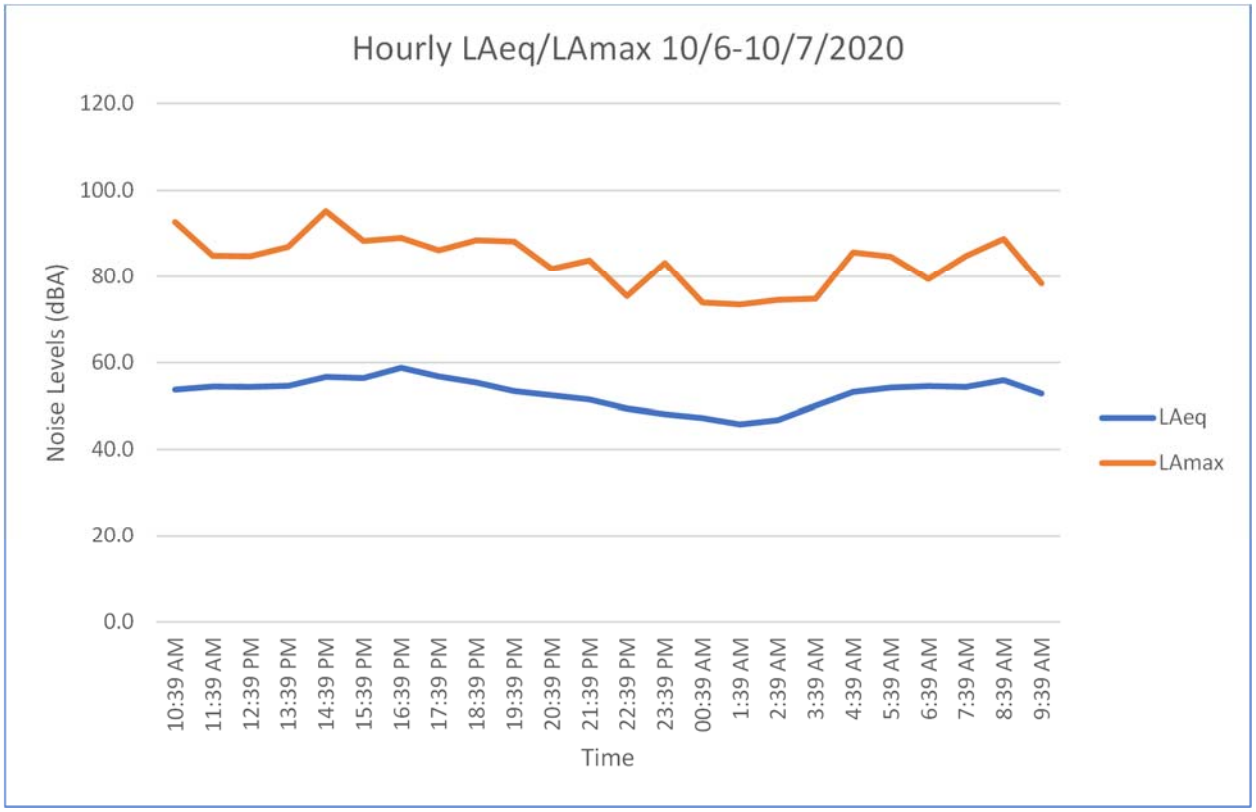
Table 2 - Summary of Long-Term Noise Measurements (dBA)

ID	Sample Location	Sample Time	Description	Lden (dBA)	Leq_{Day} (dBA)	$Leq_{Evening}$ (dBA)	Leq_{Night} (dBA)
4	1211 Badillo Street: West Parking Lot	10:39 A.M. 10/06/2020 - 10:39 A.M. 10/07/2020	Noise from automobiles, semitrucks, motorcycles, animals, airplanes, trains, industrial activities, and pedestrians	58.7	55.4	51.7	50.0

dBA = A-weighted decibels
Leq = equivalent continuous level over a period of 1 hour
Day = 7:00 a.m. – 7 p.m.
Evening = 7 p.m. – 10 p.m.
Night = 10 p.m. – 7 a.m.
Lden = equivalent continuous level over a period of 24 hours with a penalty of 5 dB for noises occurring from 7:00 pm to 10:00 pm and a penalty of 10 dB for noises occurring from 10:00 p.m. to 7:00 a.m

Exhibit F below shows the hourly equivalent noise levels (Leq) and the maximum noise levels (LAmax) during the long-term measurement at location 4.

Exhibit F – Long-Term Hourly Noise Levels



5 FUTURE COMMUNITY NOISE IMPACTS

5.1 On-site operational noise impacts

The potential noise impacts on the community would be associated with stationary sources on operating on the project site. Motor vehicle noise on public streets is often considered as part of the ambient noise; when vehicles enter a private site, they are considered as part of the site's noise sources. The trucks, vans, and associate cars activities on site could affect the closest sensitive receptors.

The impact evaluation of the Project was performed using SoundPlan Essential 5.1, an environmental noise propagation computer program that was developed to assist with noise propagation calculations for major noise sources and projects. The program calculates the sound pressure level at a location utilizing the sound emission properties of the source(s) and environmental propagation factors (sound spreading due to distance, ground affects, barriers, topography, as well as atmospheric attenuation). The program also includes a number of standardized methodologies that can be utilized to quantify the acoustic effect of these environmental factors. The specific standard employed by this program is that described in the

ISO standard 9613 “Acoustics - Attenuation of sound during propagation outdoors”. The modeled ambient temperature was 10 degrees C (50 degrees F) and the assumed relative humidity (RH) was 70 percent. The ground absorption value utilized in the model was 0 (for hard ground), which is conservatively representative of the land at the site. A 12ft wall was added to the model on the south side of the loading docks from the southwest corner of the building to the edge of the island located south of the truck path.

This study evaluates the acoustical impact of the proposed facility on the adjacent sensitive receptors and compares it to the ambient noise levels and local noise standards to assess if any mitigation measure would be necessary to reduce the noise exposure to the community. Future community noise impacts from the onsite operations were modeled using SoundPlan Essentials 5.1 acoustical modeling software. This study focuses on the daytime and nighttime noise levels in order to determine the acoustical impact of the site on the closest receivers.

5.1.1 Noise Sources

5.1.1.1 Vehicles Noise Sources

The main noise sources are trucks entering and leaving the site during the day and at night. Based on the traffic count provided (Appendix C), the following are the noise sources on site:

The main noise sources are trucks entering and leaving the site during the day and at night and vans staging during the day. Based on the traffic count provided, the following are the noise sources related to vehicles driving on site:

Daytime:

- Four (4) diesel trucks will be entering and five (5) will be leaving the project site between the hours of 7 a.m. and 7 p.m.

- Forty-five (45) personal drivers (Flex) will be entering the site, loading, and leaving the site between 4 p.m. and 6 p.m.

- One hundred and forty-two (142) vans will be leaving between the hours of 10 a.m. and 11:30 a.m.

- Forty (40) associate cars and one hundred and twenty-seven (127) DSP drivers will be coming into the site between the hours of 7 a.m. and 7 p.m. One hundred and six (106) associate cars will be leaving the site between the hours of 7 a.m. and 7 p.m.

Evening:

- Three (3) diesel trucks will be entering and two (2) will be leaving the project site between the hours of 7 p.m. and 10 p.m.

- One hundred and forty-two (142) vans will be entering the site to park in the van parking between the hours of 7 p.m. and 10 p.m.

- One hundred and twenty-seven (127) DSP drivers will be leaving the site between the hours of 7 p.m. and 10 p.m.

Nighttime:

- Seven (7) diesel trucks will be entering and leaving the project site between the hours of 10 p.m. and 7 a.m.

- There will be no van activities at nighttime.

- Eighty-nine (89) associate cars will be coming in and twenty-three (23) will be leaving the site between the hours of 10 p.m. and 7 a.m.

Noise sources were entered in the system as octave band sound power levels based on reference noise levels measured at a similar delivery station facility. NV5 took sound pressure level measurements with a reference distance of 50 feet in order to represent the noise levels associated with the different noise sources. The measurements included:

- Sound pressure levels of one truck driving and parking at the loading docks. This data is used to represent the noise levels associated with a single truck entering the site or being active at the loading dock.
- Sound pressure levels of 20 vans at the queuing area and 20 vans at the loading area. This data is used to represent the noise levels associated with 40 vans in the van queuing and staging areas.

Trucks

One area source was placed southwest of the proposed building to represent the truck activities (line haul) at the loading docks. One truck was modeled to be operating at the loading dock. One line source was placed between the truck entrance and the loading docks to model the noise from trucks driving on site. One truck was modeled to be driving on site.
Most of the truck activity is expected at night, however some truck activity will take place during the day. Therefore, trucks were modeled to be active during the day and at nighttime. Truck activities are staggered and no more than one truck is expected to be active at once on site. Trucks are instructed to be quiet at nighttime and avoid the use of horns, sound system, and other noise making devices. In addition, a Yard Marshall will be in place to monitor and assist vehicle movement while on site.

Vans

One area source was placed east of the proposed building to represent 72 vans queuing and loading. While the vans are queuing and loading, the drivers turn off the engine, therefore, the noise levels for van queuing and loading only include engine ignition noises, door opening/closing, van backup alarms and cart movements.

Employee and Van Parking

Van parking was represented by a parking area above in the eastern and southern portions of the site. The employee parking was represented by a parking area in the northwestern portion of the property. The noises associated with parking of vehicles that are accounted for in the model include engine ignition, vehicle doors opening and closing. The traffic volume of the parking lot is entered with the number of moves per parking bay (in and out are each considered a single move), the hour (for the time slices day and night) and the number of parking bays.

The model predicted the maximum noise levels produced by the truck, vans, and employee car activities using expected noise sources from trucks, vans, and employee cars. The sources were modeled as operating at the same time to represent the worst-case scenario.

Tables 2 and 3 list the sources that were considered in the analyses and Exhibit E shows the locations of noise sources and the proposed building.

Table 3 - Source Sound Power Levels in Octave Band Format (dBA, re 10-12W)- Fleets

Source name	Level (dBA)	Octave Band Centre Frequency (Hz), Sound Power Levels (dBA)								
		31	63	125	250	500	1,000	2,000	4,000	8,000
Van Staging	91.8	18	41.8	57.5	68.6	77.9	86.1	88.4	84.7	74.8
Truck Loading	104.3	48.0	71.7	86.2	95.1	96.9	96.9	98.3	96.2	93.8
Truck Path	104.3	48.0	71.7	86.2	95.1	96.9	96.9	98.3	96.2	93.8

Table 4 - Source Sound Power Levels – Parking Lots

Name	Size		Movements per hour			Road surface	Lw, ref (dBA)
			Day	Evening	Night		
Van parking	626	Parking bays	0.178	0.134	0	Asphaltic driving lanes	97.8
Employee Parking	185	Parking bays	0.525	0.442	0.387	Asphaltic driving lanes	91.2

5.1.1.2 HVAC Noise Sources

To assess the impacts created by the roof-top air conditioning units at the proposed delivery station building, data from the HVAC design package was entered for each exhaust fan and roof top unit. The HVAC units were modelled to be running continuously.

Table 5 - Source Sound Power Levels in Octave Band Format (dBA, re 10-12W)- HVACs

Source name	Reference	Level (dBA)	Octave Band Centre Frequency (Hz), Sound Power Levels (dBA)							
			63	125	250	500	1,000	2,000	4,000	8,000
EF-1	Lw/unit	61.8	42.8	50.9	59.4	53.8	53	47.2	43	36.9
EF-2 to 4	Lw/unit	69.1	46.8	55.9	63.4	63.8	62	61.2	54	44.9
EF-5	Lw/unit	67.5	45.8	58.9	61.4	59.8	61	60.2	52	46.9
EF-6 to 8	Lw/unit	71.7	52.8	63.9	65.4	66.8	64	60.2	53	45.9
RTU1	Lw/unit	89								
RTU2	Lw/unit	89								
RTU3	Lw/unit	79								
RTU4	Lw/unit	94								
RTU5 -11	Lw/unit	95.2	78.8	77.9	87.4	89.8	90	86.2	83	75.9

5.1.2 Sensitive Receivers

Sensitive receivers that may be affected by the proposed delivery station are the residences located to the north, south, and east of the site, and the elementary school located southeast of the site.

A total of six (7) receivers were modeled to evaluate the proposed project's operational noise impact. Receivers 1, 2 and 3 represent the residences located south of the site. Receiver 4 represents the Lark Ellen Village east of the site. Receivers 5 and 7 represent the residences of the single-family homes and the apartment complex located north of the site, respectively. Receiver 6 represents the school located southeast of the site. A receiver is denoted by a yellow dot. Receivers 1, 2, 3 and 6 are one-story high and Receivers 4, 5, and 7 are two-story high.

Exhibit G shows the predicted noise level map at the sensitive receptor areas. Exhibits H through K show the estimated noise level contours for the project.

Operational noise levels are anticipated to range between 46.9-55.6 dBA during the daytime, 45.9-55.5 dBA during the evening, and between 44.7-55.5 dBA at nighttime at the nearest sensitive receivers without any noise mitigation. Table 6 shows the results of the noise level predictions.

Noise from truck driving on site is the main noise contributor at nighttime. Table 7 shows the results of the noise level predictions from truck path.

Table 6 - Receiver Predicted Noise Levels

				Ambient Noise Levels dBA				Predicted noise levels dBA				Combined noise levels dBA				Difference between Ambient and Combined				Ambient noise levels higher than the source noise levels?		
No.	**Receiver name**	**Building Side**	**Floor**	**Day**	**Evening**	**Night**	**Lden**	**Day**	**Evening**	**Night**	**Lden**	**Day**	**Evening**	**Night**	**Lden**	**Day**	**Evening**	**Night**	**Lden**	**Day**	**Evening**	**Night**
1	1109 E Elgenia Avenue	North	GF	67.2	56.7	55.0	66.0	49.8	49.7	49.3	56.1	67.3	57.5	56.0	66.4	0.1	0.8	1.0	0.4	Yes	Yes	Yes
2	1209 E Elgenia Avenue	North	GF	67.2	56.7	55.0	66.0	51.8	51.5	50.8	57.6	67.3	57.8	56.4	66.6	0.1	1.1	1.4	0.6	Yes	Yes	Yes
3	1247 E Elgenia Avenue	North	GF	67.2	56.7	55.0	66.0	51	50.2	49.1	56.1	67.3	57.6	56.0	66.4	0.1	0.9	1.0	0.4	Yes	Yes	Yes
4	1350 E San Bernardino Road	West	GF	55.4	51.7	50.0	58.7	51	49.6	46.9	54.5	56.7	53.8	51.7	60.1	1.4	2.1	1.7	1.4	Yes	Yes	Yes
4	1350 E San Bernardino Road	West	1.Fl	55.4	51.7	50.0	58.7	51.7	50.6	48.8	56	56.9	54.2	52.5	60.6	1.6	2.5	2.4	1.9	Yes	Yes	Yes
5	1431 Cutter Way	South	GF	61.9	56.7	55.0	63.3	55.6	55.5	55.5	62.1	62.8	59.2	58.3	65.8	0.9	2.5	3.3	2.5	Yes	Yes	No
5	1431 Cutter Way	South	1.Fl	61.9	56.7	55.0	63.3	55.5	55.5	55.4	62.1	62.8	59.2	58.2	65.8	0.9	2.5	3.2	2.5	Yes	Yes	No
6	Grovecenter Elementary School	North	GF	67.2	56.7	55.0	66.0	46.9	45.9	44.7	51.7	67.2	57.0	55.4	66.2	0.0	0.3	0.4	0.2	Yes	Yes	Yes
7	Mountain View Venture	South	GF	61.9	56.7	55.0	63.3	51.1	50.2	49.4	56.3	62.2	57.6	56.1	64.1	0.3	0.9	1.1	0.8	Yes	Yes	Yes
7	Mountain View Venture	South	1.Fl	61.9	56.7	55.0	63.3	51.6	50.9	50.3	57.2	62.3	57.7	56.3	64.3	0.4	1.0	1.3	1.0	Yes	Yes	Yes

*The Long-Term (S4) noise levels were used as the ambient noise levels for Receiver 3 for daytime, evening, and nighttime hours. The ambient noise levels for all other receivers for evening and nighttime were determined using S4 by comparing the noise level difference during the daytime and applying the difference in the evening and at night. The Short-Term noise level of S1 was used as the daytime ambient noise levels for Receivers 1, 2, and 5. The Short-Term noise level of S3 was used as the daytime ambient noise levels for Receivers 4 and 6.

Table 7 - Receiver Predicted Noise Levels from Truck Path

			Noise levels from truck path			
No.	**Receiver name**	**Floor**	**Day**	**Evening**	**Night**	**Lden**
1	1109 E Elgenia Avenue	GF	46.9	46.9	46.9	53.5
2	1209 E Elgenia Avenue	GF	45.2	45.2	45.2	52.1
3	1247 E Elgenia Avenue	GF	41.9	41.9	41.9	48.6
4	1350 E San Bernardino Road	GF	38.7	38.7	38.7	45.4
4	1350 E San Bernardino Road	1.Fl	39.2	39.2	39.2	45.9
5	1431 Cutter Way	GF	53.1	53.1	53.1	59.7
5	1431 Cutter Way	1.Fl	52.7	52.7	52.7	59.4
6	Grovecenter Elementary School	GF	37.9	37.9	37.9	44.6
7	Mountain View Venture	GF	44.7	44.7	44.7	51.3
7	Mountain View Venture	1.Fl	44.1	44.1	44.1	50.7

Exhibit G –Operations Noise Level Projections

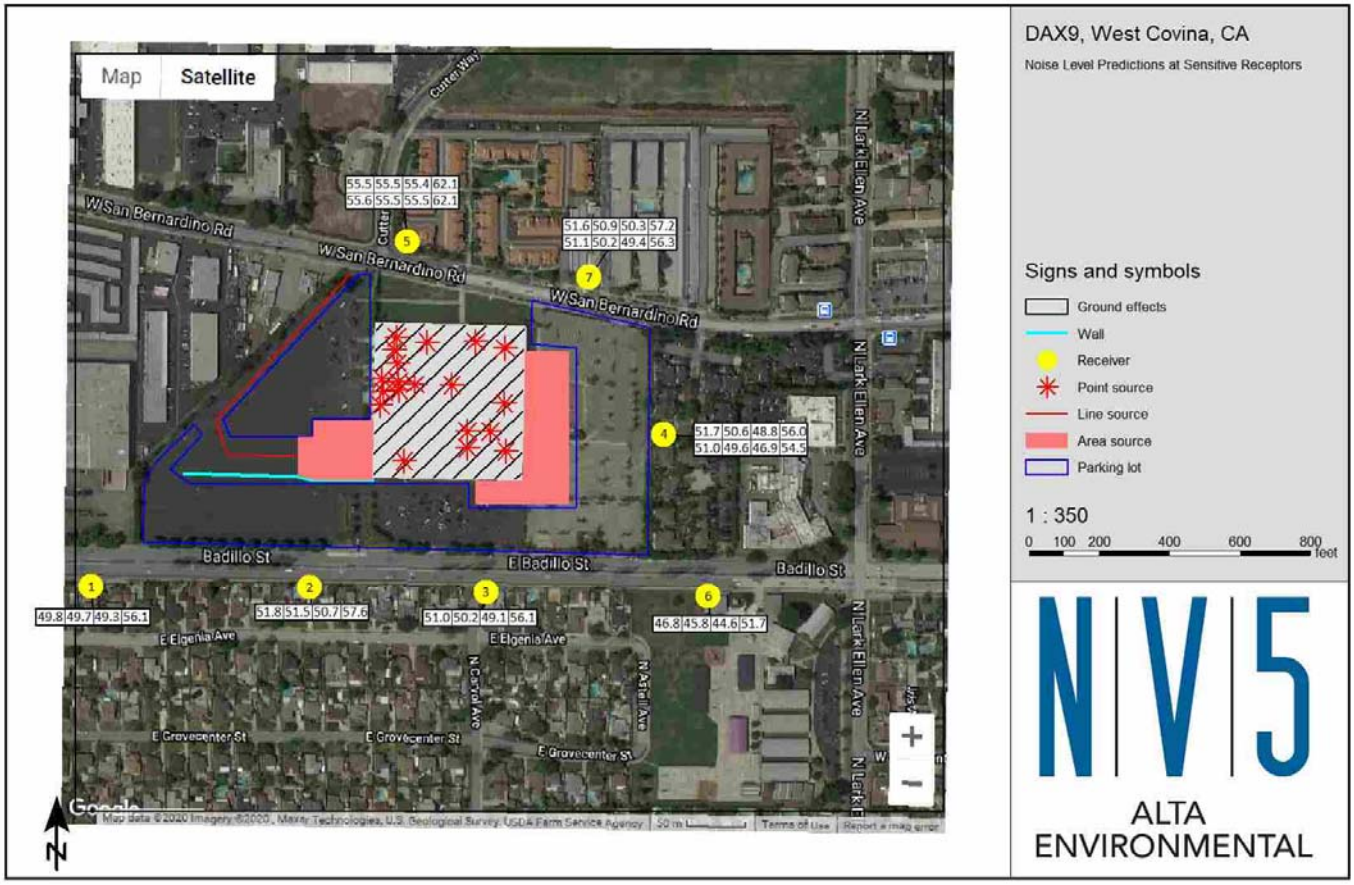


Exhibit H –Operations Noise Level Contours (Daytime)

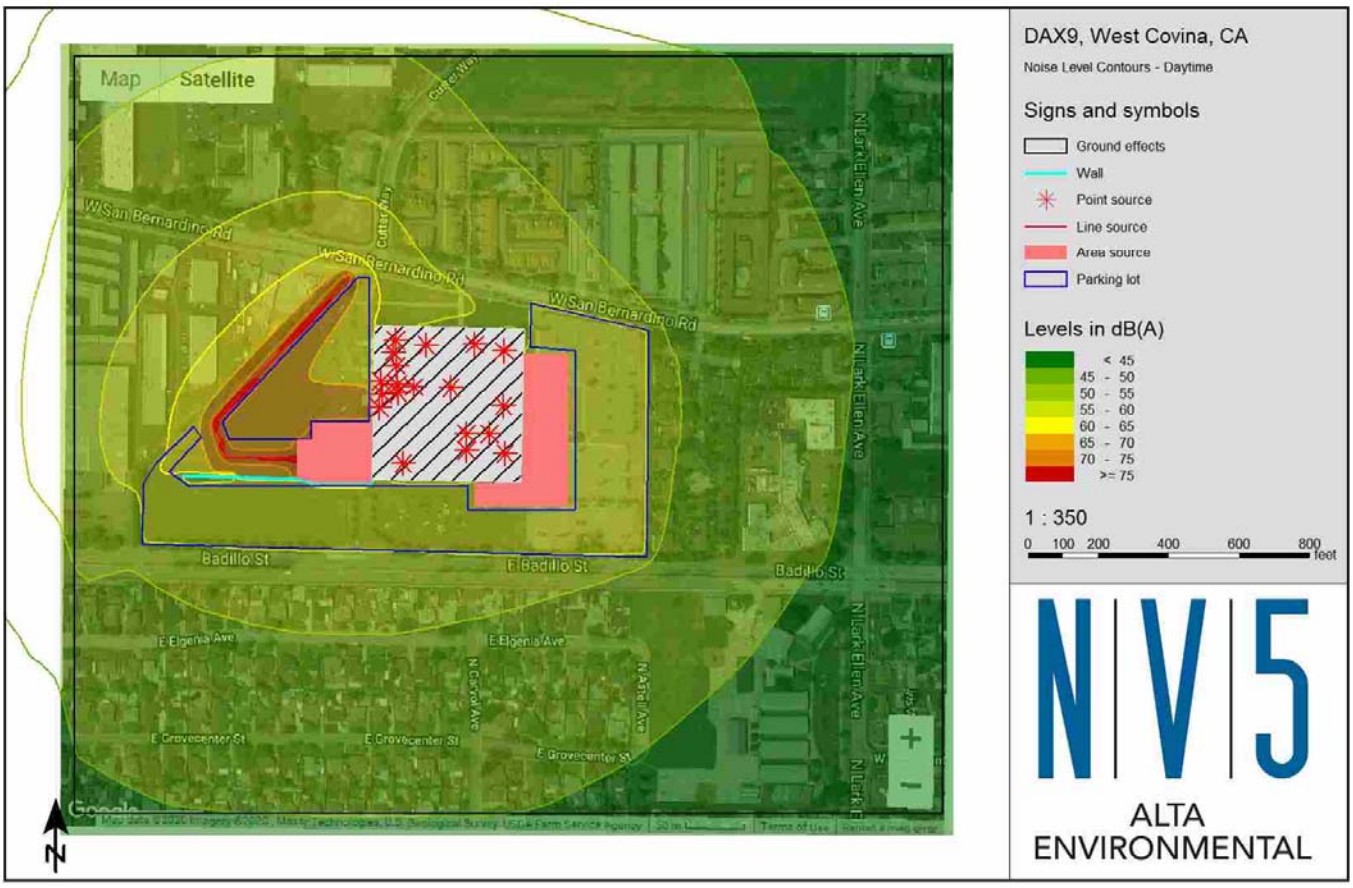


Exhibit I –Operations Noise Level Contours (Evening)

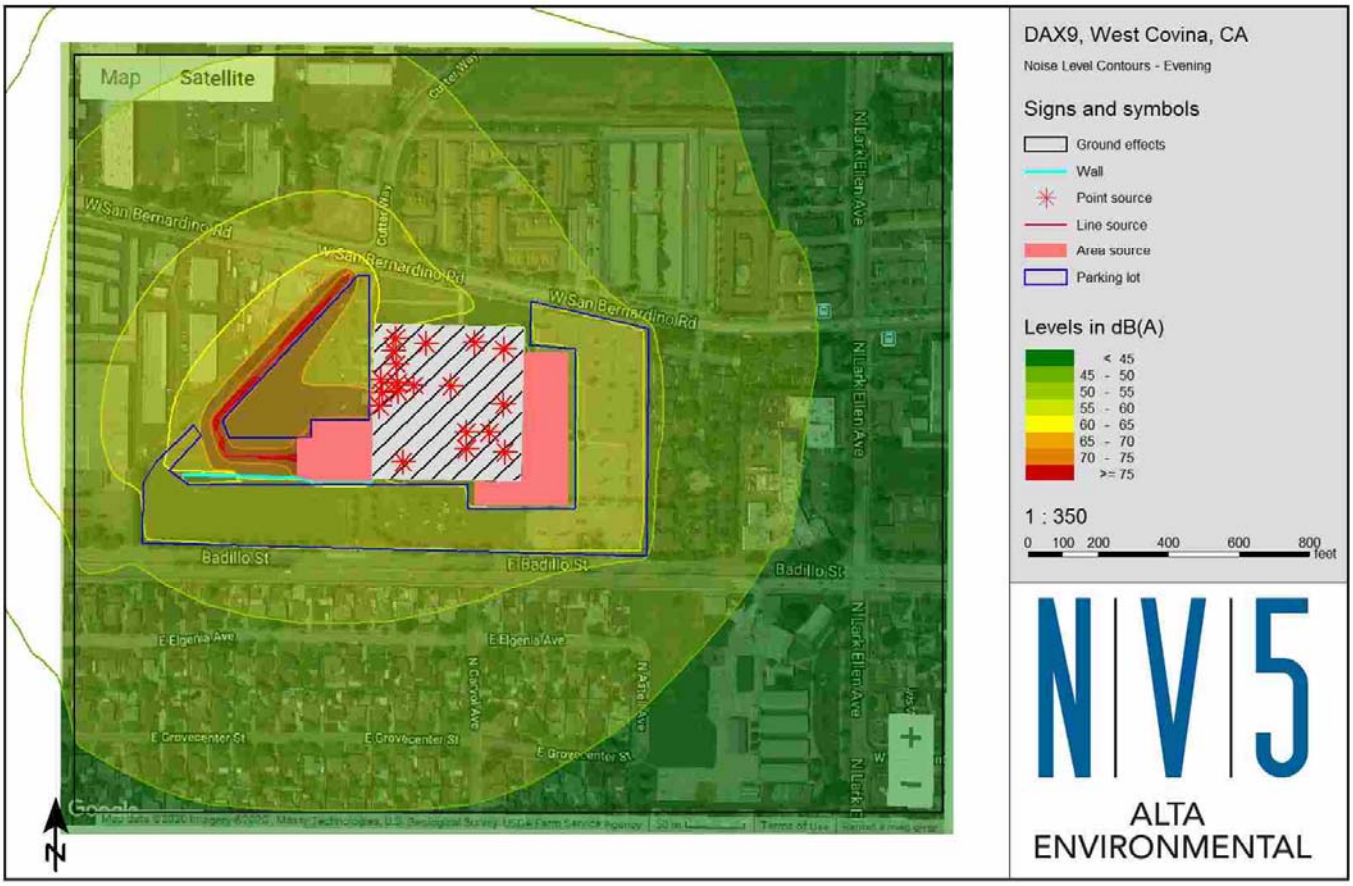


Exhibit J – DAX9, Operations Noise Level Contours (Nighttime)

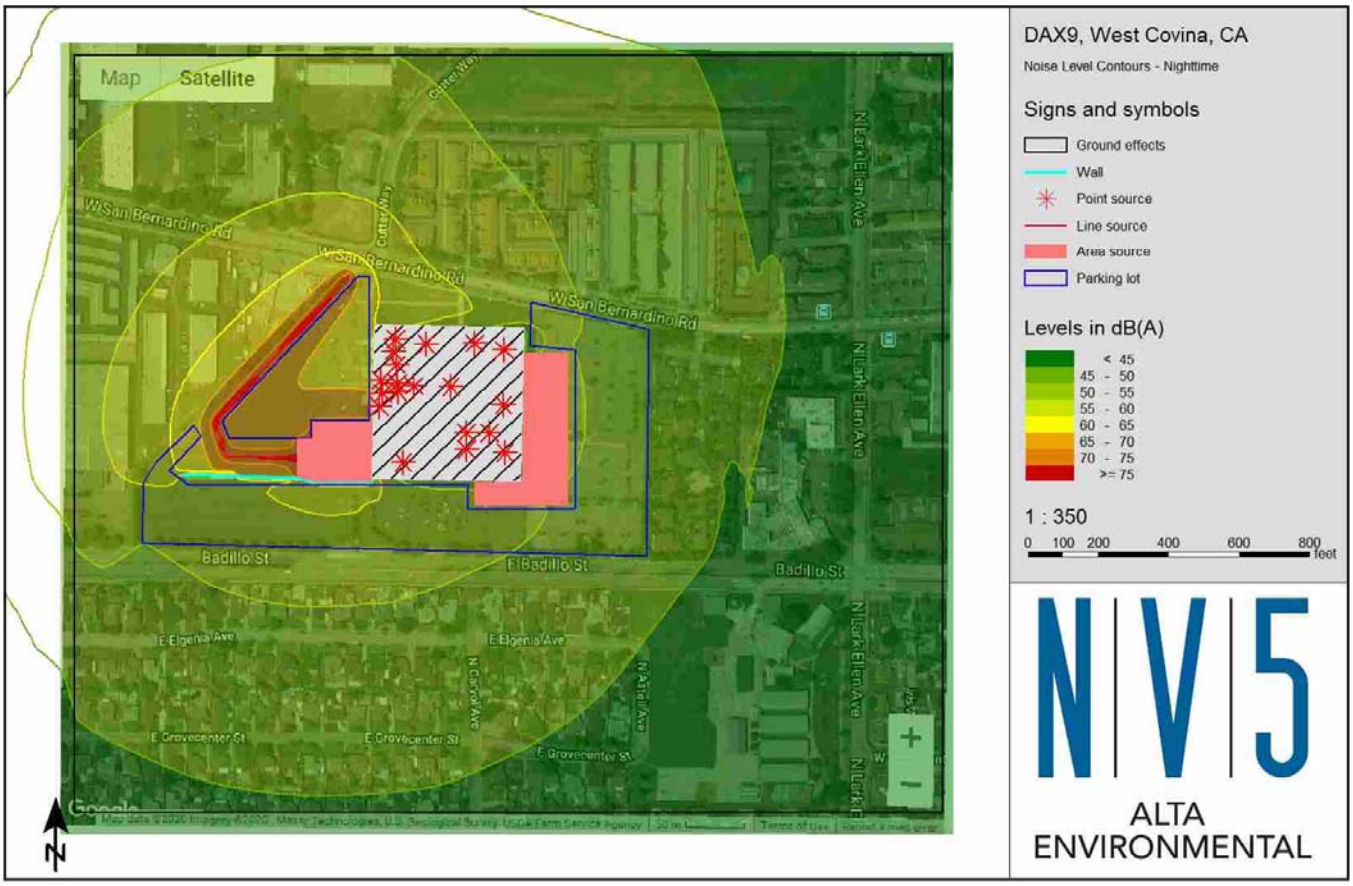
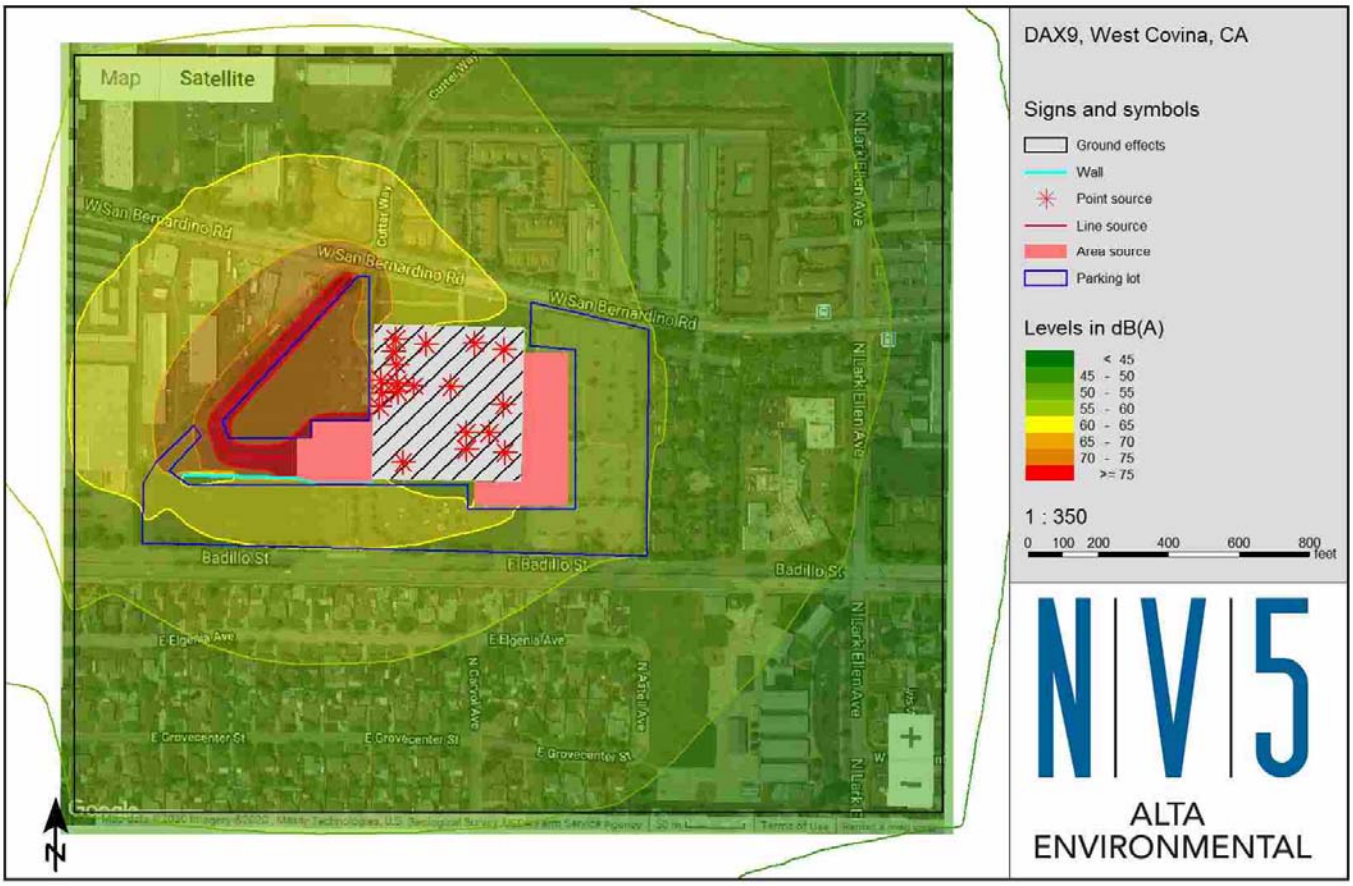


Exhibit K – DAX9, Operations Noise Level Contours (Lden)



5.1.3 Impact Analysis

As discussed above, the City of West Covina prohibits any noise within any residential zone of the city that is loud, unnecessary or unusual which unreasonably disturbs the peace and quiet of any residential neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing in the area. Typically, a change in noise level of 5 dB is readily perceptible and therefore may be perceived as a noise disturbance.

The ambient noise levels were measured to be 67.2 dBA during the daytime, 56.7 dBA during the evening, and 55 dBA at nighttime for the sensitive receptors north of the site, 61.9 dBA during the daytime, 56.7 dBA during the evening, and 55 dBA at nighttime for the sensitive receptors south of the site and 55.4 dBA during the daytime, 51.7 dBA during the evening, and 50 dBA at nighttime for the sensitive receptors east of the site .Operational outdoor noise levels are anticipated to range between 46.9-55.6 dBA during the daytime, 45.9-55.5 dBA during the evening, and between 44.7-55.5 dBA at nighttime at the nearest sensitive receivers located north, east, and south of the site. The difference between the combined noise levels, including the predicted operational noise levels and the ambient noise levels, and the ambient noise levels is expected to be between 0-1.6dB during the daytime, 0.3-2.5dB in the evening and 0.4-3.3dB at nighttime. The ambient noise levels are not expected to be raised by more than 5dB and therefore, the activities on the proposed site are not expected to cause any disturbances during the daytime, evening and nighttime. In addition, residents living off W San Bernardino Road are not expected to be noise sensitive to traffic noise including noise from trucks as the W San Bernardino Road is a busy road and a designated truck route.

The site parking lot is divided in 2 sections: the employee parking lot located west of the site and the van parking lot located south and east of the site.

The employee parking lot is expected to generate noise during daytime and nighttime when employees' shift change. A maximum of 70 employees will be coming in and out of the parking lot at once. Sensitive receptors east and south of the site are not expected to be impacted by the noise from this activity due to the building and a wall being located between the sensitive receptor and the site. Sensitive receptors north of the site are about 300 feet from the employee parking lot and W San Bernardino Road is between the site and the residences, the residences are not expected to hear the activity on the employee parking lot due to distance attenuation and the high level of existing traffic on W San Bernardino Road during the daytime and at night.

The van parking lot is expected to generate noise throughout the day and evening intermittently. Van drivers will enter the site in the morning between 9am and 11am and park their car in the van driver parking lot located southwest of the building. They will then pick up a van in the van parking lot area (south and east portion of the site) and will drive to the staging and loading area to load their packages to deliver. Once the delivery is complete, they will return to the site and park the van back in the van parking lot. Site parking attendants are often used on site during the daytime to direct traffic on site and to direct the van drivers to their parking area which reduced the amount of time the van will be active on site. Van activity is also staggered to reduce the number of vans active at once on site and limit the noise. Vans have backup alarms, however the staging area and loading areas are set up for forward movement to avoid using back up alarms. Backup alarms will be used if vans must back up out of their parking space. Vans are expected to be active in the parking lot between 10am and 11:30am and between 7pm to 9pm. The van parking lot has

534 parking spaces but only 142 vans are expected to be active daily. Van backup beepers were measured to be producing a noise level of 78dBA at 20 feet. Based on distance attenuation, at 50 feet, where the closest residence east of site is located, maximum intermittent parking lot noise events would be approximately 70dBA and approximately 60 dBA at 150 feet where the closest residences north and south of the site would be located. This parking area would surround the proposed building to the east, and south so individual noise events would be spread out across the site at varying distances from residences. Due to the staggered schedule, the large amount of parking space throughout the site and the limited use of the backup alarms, those backup alarms are expected to be heard on site seldomly during the morning and evening van activity. In addition, due to the location of the site between two busy roads with heavy traffic and an hospital located east of the Lark Ellen Village with an Ambulance entrance just east of the Lark Ellen Village residences, it is expected that higher number of impulsive noise already exist as part of the ambient noise and the sensitive receptors near the site (north, east and south) will not be disturbed by the site activities during the daytime and in the evening. Therefore, the noise generated on the site parking lots, employees and vans, is not expected to cause a disturbance for the residences north, east and south of the site.

Trucks at the Project site would also utilize backup alarms during loading/unloading activities. Backup alarms produce a typical noise level of 97dBA at 1m (3.28ft). Based on distance attenuation, at 350ft, where the closest residence south of the site is located, backup alarms noise levels would be approximately 56dBA and 52dBA at 550ft, where the closest residence north of the site is located. The 12ft wall located south of the loading docks will provide approximately 5dB additional attenuation to the residences south of the site. Residences north of the site will be partially shielded by the building. Existing noise in the vicinity of the site include truck noise, vehicular traffic including loud motorcycle. Based on the maximum noise levels measured in the vicinity of the site, between 73dBA and 86dBA, and the ambient noise level of 55dBA measured at nighttime, trucks backup alarms are not expected to cause additional disturbance for the residences north and south of the site.

The City of West Covina General Plan requires to evaluate the outdoor noise impact, however indoor noise impact was also evaluated in this analysis to evaluate the risk of possible noise disturbance due to night activities at the site. The main activity at night will be trucks entering the site and driving to the loading docks. Truck arrival will be staggered so not more than one truck will be driving at once on the property. Based on the 20dB reduction from windows closed mentioned in the General Plan, the indoor noise levels from truck path will be between 17.9 dBA and 33.1 dBA at the nearest sensitive receptors. The World Health Organization, in the Guidelines for Community Noise (April 1999), provides guidance for indoor noise levels related to sleep disturbance. If the noise is continuous, a maximum indoor noise level of 30 dBA should not be exceeded. If the noise is not continuous, noise events exceeding 45 dBA should be limited. The noise from trucks driving on site will be limited to about 5 minutes per hour and is not expected to exceed 33.1 dBA at the residences located north, east, and south of the site. In addition, the ambient noise levels are expected to be higher throughout the night than the operational noise levels. Therefore, it is not expected that residents will be disturbed by the truck activities.

Therefore, the site's operational noise impacts will **be less than significant**.

A 12ft concrete masonry sound wall, color to match the building, is already included as part of the current concept plan for the site, additional mitigations measures will not be necessary for this site with the current concept plan.

5.2 Off-site traffic noise impacts

Offsite Traffic noise was assessed using the FHWA Traffic Noise Model Version 3.0 (TNM 3.0). TNM 3.0 is a computer model released in 2020. Key inputs to the traffic noise model were roadway widths, traffic mix, and speed. Noise levels were modeled for the project site for Existing (2020) and Existing Plus Project.

5.2.1 Off-Site Traffic Noise Prediction Model Inputs

The Project would generate traffic along adjacent roads including W San Bernardino Road and Badillo Street. Table 8 identifies the 4 roadway segments and the posted vehicle speeds.

Table 8 – Off-site Roadways

ID	Roadway	Segment	Receiving Land Use[1]	Vehicle Speed (mph)[2]
1	W San Bernardino Road	Westbound - N Lark Ellen Ave to N Vincent Ave	Sensitive	45
2	W San Bernardino Road	Eastbound - N Vincent Ave to N Lark Ellen Ave	Sensitive	45
3	Badillo Street	Eastbound - N Vincent Ave to N Lark Ellen Ave	Sensitive	45
4	Badillo Street	Westbound - N Lark Ellen Ave to N Vincent Ave	Sensitive	45

1 Noise sensitive uses limited to noise sensitive residential land uses
2 Vehicle Speed Posted

The Average Daily Traffic (ADT) used in this study are presented in Table 9 based on the traffic analysis done by NV5 for this project for the following scenario: Existing (2021) and Existing + Project (2021). The ADT vary for each roadway segment based on the existing traffic volumes and the combination of project traffic distributions.

Table 9 – Average Daily Traffic Volumes with Time of Day and Vehicle Splits

		Existing (2021)		Existing + Project (2021)		Increase	
		San Bernardino Road	Badillo Street	San Bernardino Road	Badillo Street	San Bernardino Road	Badillo Street
ADT		16,000	19,000	16,772	19,142	5%	1%
Daytime (7am-7pm)	Cars/Passenger Vehicles	12,920	15,827	13,425	15,827	4%	0%
	Medium Trucks	544	323	544	323	0%	0%
	Heavy Trucks	136	0	145	0	6%	0%
Evening (7pm-10pm)	Cars/Passenger Vehicles	912	1,117	1,039	1,259	12%	11%
	Medium Trucks	38	23	38	23	0%	0%
	Heavy Trucks	10	0	15	0	34%	0%
Night (10pm-7am)	Cars/Passenger Vehicles	1,368	1,676	1,480	1,676	8%	0%
	Medium Trucks	58	34	58	34	0%	0%
	Heavy Trucks	14	0	28	0	50%	0%

The traffic volumes were taken by National Data & Surveying Services (NDS). 24-hour volume and classification counts were taken on Badillo Street and San Bernardino Road between Vincent Ave and Lark Ellen Ave on March 2, 2021. NV5 adjusted the volumes using factors developed for the Traffic Impact Study to account for COVID's impact on traffic volumes. The resulting daily volumes are in line with historic counts and anticipated growth (between the years the historic counts were taken and 2021).

5.2.2 Off-Site Traffic Noise Impact

The noise levels from off-site transportation sources were modeled including only vehicular noise on area roadways and do not include noise contributions from the surrounding stationary noise sources within the project area.

Three main receivers were modeled to be representative of the sensitive receivers near the site:

- One receiver at 1431 Cutter Way representative of residences along W San Bernardino Road.
- One receiver at the Lark Ellen Village Apartments representative to the residence east of the project site.

- One receiver at 1209 E Elgenia Avenue representative of the residences along Badillo Street.

Table 10 presents the CNEL noise levels at the sensitive receptors for the Existing conditions and Existing + Projects conditions. As shown in Table 10, the Project off-site traffic noise level will result in a maximum 0.4 dB increase of noise levels.

Table 10 – Traffic Noise Levels

Modeled Receptor	Distance to Centerline	Key Roadway Segment	Existing Noise Level (dBA CNEL)	Existing + Project Noise Level (dBA CNEL)	Noise Level Increase (dB)
Residences on W San Bernardino Road	80 feet	W San Bernardino	65.6	66.0	0.4
Residences at Lark Ellen Village Apartments	260 feet/ 450 feet	W San Bernardino/Badillo Street	59.9	60.3	0.4
Residences on Badillo Street	70 feet	Badillo Street	66.8	66.8	0

Therefore, noise impact from increased traffic would be **less than significant**.

5.3 Construction Noise and Vibration Impact

This section analyzes the potential exposure to noise and evaluates the impacts resulting from the short-term construction activities associated with the development of the Project. Scope of work includes demolition of existing parking lot, site prep, rough and fine grading, paving, landscaping, installation of light poles and signage.

To assess the potential for short-term construction noise impacts, three representative sensitive receiver locations, were identified as shown in Table 12. All distances are measured from the Project site center to the outdoor living areas (e.g., private backyards) or at the building facade, whichever is closer to the Project site. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures. Distance is measured in a straight line from the project boundary for each phase to each receiver location. Refer to Table 12 for the distances of the sensitive receptors to the equipment.

5.3.1 Construction Noise Sources

Construction is anticipated to start November 2021 and last until April 2022. Construction activities will take place from 7 a.m. to 8 p.m. which is within the City's allowable construction hours and will be temporary in nature.

Noise impacts from the construction activities were evaluated by estimating the typical noise levels for each type of construction equipment using the Federal Highway Administration (FHWA) roadway construction model (RCNM) and comparing the Leq at the nearest sensitive receptors with the ambient noise levels from the field measurement (see Table 11).
Estimated usage was estimated for each expected equipment from the construction activities as shown in Table 11. Each type of construction equipment produces a maximum noise levels (Lmax) at a reference distance of 50 feet from the noise source.

Table 11 – Maximum Noise Levels and Estimated Usage of Typical Construction Equipment

Type of Equipment	Estimated Usage (%)	Lmax at 50 Feet (dBA)
Backhoe	40	77.6
Excavator	40	80.7
Front End Loader	40	79.1
Soil Compactor	20	83.2
Grader	40	85
Paver	50	77.2

Using the RCNM, the noise levels were calculated for nearest sensitive receptors from the construction equipment, as presented in Table 12.

Table 12 – Predicted Construction Noise Levels at the Nearest Sensitive Receptors

No.	Receiver Name	Receiver Location	Distance to Equipment	Daytime Ambient Noise Levels (dBA)	Predicted Noise levels Leq (dBA)	Significant Impact?
1	1431 Cutler Way	150 ft northeast of the site	500	61.9	64.7	No
2	1350 E San Bernardino Road	30 ft east of the site	220	55.4	71.9	No
3	1209 E Elgenia Avenue	100 ft south of the site	350	67.2	67.8	No

5.3.2 Construction Noise Impact

Construction activities for this project is expected to be light as the building is already built.
As shown in Table 12, the predicted noise levels at residences northeast, east, and south of the site will be less than 80 dBA. In addition, construction activities will only take place during the daytime between 7 a.m. and 8 p.m.

Therefore, construction noise impacts are expected to be **less than significant** during construction of the proposed project.

5.3.3 Ground-borne Vibration During Construction

This section focuses on the assessment of potential impacts associated with construction-generated vibration.

The City of West Covina has not adopted significance thresholds for vibration. Vibration may be expressed through a number of parameters that describe the displacement, the vibration velocity, or acceleration experienced by an object. Ground-borne vibration related to human annoyance is related to rms velocity levels, expressed in VdB. Vibration level L_v can be estimated using the following equation:

$$L_{vdistance} = L_{vref} - 30\log(D/25)$$

where:

$L_{vdistance}$ = the rms velocity level adjusted for distance, VdB
L_{vref} = the source reference vibration level at 25 ft, VdB
D = distance from the equipment to the receiver, ft

The construction activities for this project are expected to be limited to light construction in the parking lot areas. The construction equipment is not expected to come within 100 feet to the residences on the east of the site. North and south of the site, the construction equipment swill not be within at least 200 feet from the closest residences.

Loaded trucks or similar construction equipments could create vibration levels of 86VdB at 25 feet. At 100 feet, loaded trucks would create vibration level of 68VdB which would be below the nuisance threshold. Other construction equipment expected to be used as part of this project has lower vibration levels and therefore, will not be a nuisance.

Therefore, vibration impacts will be **less than significant.**

6 MITIGATION MEASURE

A 12ft concrete masonry sound wall, color to match the building, is already included as part of the current concept plan for the site, additional mitigations measures will not be necessary for this site with the current concept plan.

7 REFERENCES

- West Covina Code of Regulatory Ordinances, Chapter 15, Article IV, Section 15-85 to Section 15-95
- West Covina Code of Regulatory Ordinances, Chapter 26, Article X, Section 26-580
- West Covina Code of Regulatory Ordinances, Chapter 1, Section 1-37
- West Covina General Plan, December 2016
- Federal Highway Administration, Traffic Noise Model TNM Software Version 3.0.
- Caltrans, Transportation- and Construction-Induced Vibration Guidance Manual, April 2020.
- California Department of Transportation, Technical Noise Supplement, September 2013
- Federal Transit Administration, Transit Noise and Vibration Impact Assessment, September 2018.
- Soundplan Essential 5.0, Noise Sources: Parking Noise.

APPENDIX A – Ambient Noise Measurements

NV5
ALTA ENVIRONMENTAL

Noise Measurement Field Data			
Project:	DAX9 West Covina, CA	Project Number:	202044.07
Sample Name:	S4 – 24 Hour Sample	Date:	10/6-10/7/20
Analyst:	Natalie Kvochak, Therese Rizarri, and Carbany Becerril	Time:	10:39-10:39
Location:	1211 Badillo Street – West Parking Lot		
Noise Sources:	Automobiles, semitrucks, motorcycles, airplanes, trains, industrial activities, animal noises, pedestrians		
Comments:	Day: Moderate traffic on Badillo Street and San Bernardino Road. Airplanes flying overhead. Loading and unloading activities at neighboring facilities. Occasional emergency vehicle with siren, semitruck, or motorcycle passes by. Bird chirping. Occasional pedestrian walks by. Evening: Moderate traffic on Badillo Street and San Bernardino Road. Airplanes and helicopter flying overhead. Occasional train horn in distance. Occasional emergency vehicle with siren, semitruck, or motorcycle drives by. Bird and cricket chirping and dog barking. Humming from streetlights. Occasional pedestrian walks by Night: Light traffic on Badillo Street and San Bernardino Road. Some industrial activity at nearby facilities. Occasional semitruck or motorcycle drives by, pedestrian walks by, or train horn in distance. Birds chirping and dogs barking. Day: Light to moderate traffic on Badillo Street and San Bernardino Road. Airplanes/helicopter flies overhead. Occasional emergency vehicle with siren, semitruck, or motorcycle drives by. Occasional train horn in distance. Some gardening activities at near by sites.		

Results (dBA):			
Lden:	LDay (07:00-19:00)	LEvening (19:00-22:00):	LNight (22:00-07:00):
58.5	55.7	53.2	50.6

Equipment		**Weather**	
Sound Level Meter:	SoundAdvisor™ Model 831C	Temperature (˚F):	79˚ F
Calibrator:	CAL200	Wind (MPH):	2 MPH
Response Time:	Slow	Sky:	Clear
Weighting:	A weighting	Barometric Pressure:	N/A
Microphone Height:	5’ feet	Humidity:	32%

Photo:



Noise Measurement Field Data			
Project:	DAX9 West Covina, CA	Project Number:	202044.07
Sample Name:	S1 - Daytime	Date:	10/6/2020
Analyst:	Natalie Kvochak & Therese Rizarri	Time:	08:37-08:52
Location:	1211 Badillo Street- South Parking Lot		
Noise Sources:	Automobiles, motorcycles, semitrucks, airplanes, animals, pedestrians		
Comments:	Moderate traffic on Badillo Street. Faint airplane sounds and light pedestrian traffic. Birds chirping. 8:44 motorcycle drives by, car alarm goes off, train horn in distance, and pedestrian walks by. 8:50 semitruck drives by. 8:52 semitruck drives by.		

Results (dBA):		
Leq:	Ls(min):	Ls(max):
67.2	49.5	85.8

Equipment		**Weather**	
Sound Level Meter:	SoundAdvisor™ Model 831C	Temperature (˚F):	70˚ F
Calibrator:	CAL200	Wind (MPH):	2 MPH
Response Time:	Slow	Sky:	Clear
Weighting:	A weighting	Barometric Pressure:	N/A
Microphone Height:	5’ feet	Humidity:	47%

Photo:



NV5
ALTA ENVIRONMENTAL

Noise Measurement Field Data			
Project:	DAX9 West Covina, CA	Project Number:	202044.07
Sample Name:	S2 - Daytime	Date:	10/6/2020
Analyst:	Natalie Kvochak & Therese Rizarri	Time:	09:10-09:25
Location:	1233 Elgenia Street		
Noise Sources:	Automobiles, animals, and pedestrians		
Comments:	Light to no traffic on Elgenia Street. Bird chirping. Can faintly hear traffic from Badillo Street. 9:20 pedestrian walks by with dog. 9:23 pedestrian walks by. Car with muffler drives by at 9:24; dog barking at 9:24.		

Results (dBA):		
Leq:	Ls(min):	Ls(max):
50.6	46.2	62.9

Equipment		Weather	
Sound Level Meter:	SoundAdvisor™ Model 831C	Temperature (˚F):	72˚ F
Calibrator:	CAL200	Wind (MPH):	0 MPH
Response Time:	Slow	Sky:	Clear
Weighting:	A weighting	Barometric Pressure:	N/A
Microphone Height:	5’ feet	Humidity:	42%

Photo:



Noise Measurement Field Data			
Project:	DAX9 West Covina, CA	Project Number:	202044.07
Sample Name:	S3 - Daytime	Date:	10/6/2020
Analyst:	Natalie Kvochak & Therese Rizarri	Time:	09:41-09:56
Location:	529 Cutler Way		
Noise Sources:	Automobiles, semitrucks, motorcycles, animals, trains, industrial activities, and pedestrians		
Comments:	Moderate to heavy traffic on San Bernardino Road. Semi-truck parked on Cutler Way with motor running. Back up alarms in distance. 9:42 truck drives by and pedestrians with dogs walk by. 9:47 train horn in distance and truck drives by. Truck drives by at 9:48, 9:50, and 9:51. Car playing loud music drives by from 9:53-9:54.		

Results (dBA):		
Leq:	Ls(min):	Ls(max):
61.9	50.2	81.0

Equipment		**Weather**	
Sound Level Meter:	SoundAdvisor™ Model 831C	Temperature (˚F):	75˚ F
Calibrator:	CAL200	Wind (MPH):	0 MPH
Response Time:	Slow	Sky:	Clear
Weighting:	A weighting	Barometric Pressure:	N/A
Microphone Height:	5’ feet	Humidity:	38%

Photo:



APPENDIX B – SoundPlan Essential – Contributions

Contribution Levels of the Receivers

Source name		Level Day	Evening	Night	Lden
		dB(A)			
1109 E Elgenia Ave	GF	49.8	49.7	49.3	56.1
Associate Parking		32.9	32.2	31.6	38.5
EF-1		-0.1	-0.1	-0.1	6.6
EF-2		6.0	6.0	6.0	12.7
EF-3		4.2	4.2	4.2	10.9
EF-4		5.3	5.3	5.3	11.9
EF-5		5.3	5.3	5.3	12.0
EF-6		7.1	7.1	7.1	13.8
EF-7		7.7	7.7	7.7	14.4
EF-8		7.9	7.9	7.9	14.6
RTU1		25.7	25.7	25.7	32.4
RTU2		25.6	25.6	25.6	32.3
RTU3		15.4	15.4	15.4	22.1
RTU4		30.0	30.0	30.0	36.6
RTU5		31.2	31.2	31.2	37.9
RTU6		30.4	30.4	30.4	37.1
RTU7		31.8	31.8	31.8	38.5
RTU8		31.3	31.3	31.3	38.0
RTU9		31.4	31.4	31.4	38.1
RTU10		31.0	31.0	31.0	37.7
RTU11		31.5	31.5	31.5	38.2
Truck loading docks		43.9	43.9	43.9	50.6
Truck path		46.9	46.9	46.9	53.5
Van parking		39.8	38.6	-	38.8
Van staging		26.3	-	-	23.3
1209 E Elgenia Avenue	GF	51.8	51.5	50.7	57.6
Associate Parking		34.8	34.1	33.5	40.4
EF-1		3.6	3.6	3.6	10.2
EF-2		8.9	8.9	8.9	15.6
EF-3		7.7	7.7	7.7	14.4
EF-4		9.2	9.2	9.2	15.9
EF-5		11.6	11.6	11.6	18.2
EF-6		10.4	10.4	10.4	17.0
EF-7		11.6	11.6	11.6	18.2
EF-8		12.2	12.2	12.2	18.8
RTU1		30.4	30.4	30.4	37.1
RTU2		30.1	30.1	30.1	36.8
RTU3		19.4	19.4	19.4	26.1
RTU4		33.6	33.6	33.6	40.3
RTU5		34.3	34.3	34.3	41.0
RTU6		33.6	33.6	33.6	40.3
RTU7		35.5	35.5	35.5	42.2
RTU8		35.0	35.0	35.0	41.7
RTU9		35.9	35.9	35.9	42.5
RTU10		35.3	35.3	35.3	42.0
RTU11		36.3	36.3	36.3	43.0
Truck loading docks		47.3	47.3	47.3	53.9
Truck path		45.4	45.4	45.4	52.1
Van parking		44.8	43.5	-	43.8
Van staging		34.2	-	-	31.2
1247 E Elgenia Ave	GF	51.0	50.2	49.1	56.1
Associate Parking		30.9	30.2	29.6	36.5
EF-1		2.8	2.8	2.8	9.5
EF-2		8.7	8.7	8.7	15.4
EF-3		6.9	6.9	6.9	13.6
EF-4		7.8	7.8	7.8	14.5
EF-5		12.2	12.2	12.2	18.8
EF-6		11.9	11.9	11.9	18.6
EF-7		14.1	14.1	14.1	20.8
EF-8		16.7	16.7	16.7	23.4
RTU1		30.3	30.3	30.3	37.0
RTU2		29.9	29.9	29.9	36.6
RTU3		19.3	19.3	19.3	25.9
RTU4		33.4	33.4	33.4	40.1

Contribution Levels of the Receivers

Source name		Level Day	Evening	Night	Lden
			dB(A)		
RTU5		34.7	34.7	34.7	41.4
RTU6		34.8	34.8	34.8	41.5
RTU7		36.0	36.0	36.0	42.6
RTU8		36.4	36.4	36.4	43.0
RTU9		38.8	38.8	38.8	45.5
RTU10		38.8	38.8	38.8	45.5
RTU11		39.7	39.7	39.7	46.4
Truck loading docks		43.4	43.4	43.4	50.1
Truck path		41.9	41.9	41.9	48.6
Van parking		44.8	43.6	-	43.8
Van staging		41.0	-	-	38.0
1350 E San Bernardino Road	GF	51.0	49.6	46.9	54.5
Associate Parking		26.8	26.0	25.5	32.4
EF-1		0.9	0.9	0.9	7.6
EF-2		8.2	8.2	8.2	14.8
EF-3		5.4	5.4	5.4	12.0
EF-4		5.4	5.4	5.4	12.1
EF-5		7.1	7.1	7.1	13.8
EF-6		15.9	15.9	15.9	22.6
EF-7		17.1	17.1	17.1	23.8
EF-8		17.5	17.5	17.5	24.2
RTU1		28.5	28.5	28.5	35.2
RTU2		28.4	28.4	28.4	35.1
RTU3		18.3	18.3	18.3	24.9
RTU4		33.0	33.0	33.0	39.7
RTU5		35.0	35.0	35.0	41.6
RTU6		36.8	36.8	36.8	43.5
RTU7		34.9	34.9	34.9	41.6
RTU8		36.3	36.3	36.3	43.0
RTU9		37.5	37.5	37.5	44.1
RTU10		39.2	39.2	39.2	45.9
RTU11		37.4	37.4	37.4	44.1
Truck loading docks		35.2	35.2	35.2	41.9
Truck path		38.7	38.7	38.7	45.4
Van parking		47.4	46.2	-	46.4
Van staging		43.4	-	-	40.4
1350 E San Bernardino Road	1.Fl	51.7	50.6	48.8	56.0
Associate Parking		28.2	27.5	26.9	33.8
EF-1		1.9	1.9	1.9	8.5
EF-2		9.6	9.6	9.6	16.3
EF-3		7.0	7.0	7.0	13.7
EF-4		7.1	7.1	7.1	13.8
EF-5		8.8	8.8	8.8	15.5
EF-6		17.0	17.0	17.0	23.7
EF-7		18.2	18.2	18.2	24.9
EF-8		18.5	18.5	18.5	25.2
RTU1		29.3	29.3	29.3	36.0
RTU2		29.2	29.2	29.2	35.9
RTU3		19.1	19.1	19.1	25.7
RTU4		33.8	33.8	33.8	40.4
RTU5		36.7	36.7	36.7	43.4
RTU6		38.8	38.8	38.8	45.4
RTU7		36.7	36.7	36.7	43.4
RTU8		38.4	38.4	38.4	45.1
RTU9		39.6	39.6	39.6	46.3
RTU10		41.4	41.4	41.4	48.0
RTU11		39.5	39.5	39.5	46.2
Truck loading docks		38.0	38.0	38.0	44.7
Truck path		39.2	39.2	39.2	45.9
Van parking		47.3	46.1	-	46.3
Van staging		42.7	-	-	39.7
1431 Cutter Way	GF	55.6	55.5	55.5	62.1
Associate Parking		42.5	41.8	41.2	48.1
EF-1		6.2	6.2	6.2	12.9

Contribution Levels of the Receivers

Source name		Level Day	Evening	Night	Lden
			dB(A)		
EF-2		16.4	16.4	16.4	23.1
EF-3		11.6	11.6	11.6	18.3
EF-4		9.9	9.9	9.9	16.6
EF-5		8.1	8.1	8.1	14.7
EF-6		16.6	16.6	16.6	23.3
EF-7		14.1	14.1	14.1	20.8
EF-8		12.2	12.2	12.2	18.9
RTU1		33.6	33.6	33.6	40.2
RTU2		34.1	34.1	34.1	40.8
RTU3		25.5	25.5	25.5	32.2
RTU4		42.8	42.8	42.8	49.4
RTU5		42.9	42.9	42.9	49.6
RTU6		41.5	41.5	41.5	48.2
RTU7		39.6	39.6	39.6	46.3
RTU8		39.2	39.2	39.2	45.9
RTU9		36.5	36.5	36.5	43.2
RTU10		36.2	36.2	36.2	42.9
RTU11		35.8	35.8	35.8	42.5
Truck loading docks		46.8	46.8	46.8	53.4
Truck path		53.1	53.1	53.1	59.7
Van parking		35.5	34.2	-	34.5
Van staging		23.3	-	-	20.3
1431 Cutter Way	1.Fl	55.5	55.5	55.4	62.1
Associate Parking		42.0	41.3	40.7	47.6
EF-1		6.4	6.4	6.4	13.1
EF-2		16.9	16.9	16.9	23.6
EF-3		11.8	11.8	11.8	18.5
EF-4		10.2	10.2	10.2	16.9
EF-5		8.4	8.4	8.4	15.1
EF-6		17.0	17.0	17.0	23.6
EF-7		14.2	14.2	14.2	20.9
EF-8		12.4	12.4	12.4	19.0
RTU1		33.7	33.7	33.7	40.4
RTU2		34.3	34.3	34.3	40.9
RTU3		25.6	25.6	25.6	32.3
RTU4		43.7	43.7	43.7	50.4
RTU5		44.2	44.2	44.2	50.9
RTU6		42.8	42.8	42.8	49.5
RTU7		39.9	39.9	39.9	46.6
RTU8		39.5	39.5	39.5	46.1
RTU9		36.9	36.9	36.9	43.5
RTU10		36.5	36.5	36.5	43.2
RTU11		36.2	36.2	36.2	42.9
Truck loading docks		46.3	46.3	46.3	53.0
Truck path		52.7	52.7	52.7	59.4
Van parking		34.8	33.6	-	33.8
Van staging		24.4	-	-	21.4
Grovecenter Elementary School	GF	46.8	45.8	44.6	51.7
Associate Parking		26.0	25.2	24.6	31.5
EF-1		-1.1	-1.1	-1.1	5.6
EF-2		5.6	5.6	5.6	12.3
EF-3		3.1	3.1	3.1	9.8
EF-4		3.3	3.3	3.3	10.0
EF-5		5.8	5.8	5.8	12.5
EF-6		10.8	10.8	10.8	17.4
EF-7		12.1	12.1	12.1	18.8
EF-8		13.1	13.1	13.1	19.7
RTU1		25.5	25.5	25.5	32.2
RTU2		25.3	25.3	25.3	32.0
RTU3		15.1	15.1	15.1	21.7
RTU4		29.7	29.7	29.7	36.3
RTU5		31.9	31.9	31.9	38.6
RTU6		32.7	32.7	32.7	39.4
RTU7		32.3	32.3	32.3	38.9
RTU8		33.0	33.0	33.0	39.7

Contribution Levels of the Receivers

Source name		Level Day	Evening	Night	Lden
			dB(A)		
RTU9		34.1	34.1	34.1	40.7
RTU10		34.9	34.9	34.9	41.5
RTU11		34.3	34.3	34.3	40.9
Truck loading docks		37.1	37.1	37.1	43.8
Truck path		37.9	37.9	37.9	44.6
Van parking		40.8	39.5	-	39.8
Van staging		38.6	-	-	35.5
Mountain View Venture	GF	51.1	50.2	49.4	56.3
Associate Parking		32.7	32.0	31.4	38.3
EF-1		2.5	2.5	2.5	9.1
EF-2		10.6	10.6	10.6	17.2
EF-3		7.2	7.2	7.2	13.9
EF-4		6.6	6.6	6.6	13.3
EF-5		7.0	7.0	7.0	13.7
EF-6		19.2	19.2	19.2	25.9
EF-7		16.4	16.4	16.4	23.0
EF-8		14.2	14.2	14.2	20.9
RTU1		30.2	30.2	30.2	36.9
RTU2		30.4	30.4	30.4	37.1
RTU3		20.7	20.7	20.7	27.4
RTU4		36.2	36.2	36.2	42.9
RTU5		38.2	38.2	38.2	44.8
RTU6		40.9	40.9	40.9	47.6
RTU7		36.6	36.6	36.6	43.3
RTU8		38.1	38.1	38.1	44.8
RTU9		37.0	37.0	37.0	43.7
RTU10		37.7	37.7	37.7	44.4
RTU11		36.4	36.4	36.4	43.1
Truck loading docks		35.7	35.7	35.7	42.4
Truck path		44.7	44.7	44.7	51.3
Van parking		43.8	42.5	-	42.8
Van staging		42.5	-	-	39.4
Mountain View Venture	1.Fl	51.6	50.9	50.3	57.2
Associate Parking		32.4	31.7	31.1	38.0
EF-1		2.9	2.9	2.9	9.5
EF-2		11.5	11.5	11.5	18.2
EF-3		7.9	7.9	7.9	14.6
EF-4		7.3	7.3	7.3	14.0
EF-5		7.5	7.5	7.5	14.2
EF-6		20.9	20.9	20.9	27.6
EF-7		17.6	17.6	17.6	24.3
EF-8		15.2	15.2	15.2	21.9
RTU1		30.7	30.7	30.7	37.4
RTU2		30.8	30.8	30.8	37.5
RTU3		21.2	21.2	21.2	27.9
RTU4		36.8	36.8	36.8	43.5
RTU5		39.7	39.7	39.7	46.4
RTU6		43.0	43.0	43.0	49.6
RTU7		37.6	37.6	37.6	44.3
RTU8		39.3	39.3	39.3	46.0
RTU9		38.0	38.0	38.0	44.7
RTU10		39.0	39.0	39.0	45.6
RTU11		37.4	37.4	37.4	44.0
Truck loading docks		39.4	39.4	39.4	46.1
Truck path		44.1	44.1	44.1	50.7
Van parking		43.6	42.4	-	42.6
Van staging		41.8	-	-	38.8

APPENDIX C – TNM Traffic Model

REPORT: **INPUT TRAFFIC FOR TNM VEHICLES (Lden)**

TNM VERSION: 3.0.7.60002 REPORT DATE: 27 April 2021

CALCULATED WITH: 3.0.7.60002 CALCULATION DATE: 4/27/2021 1:08:39 PM

CASE: Delivery Station - West Covina, CA Existing ORGANIZATION:

PATH: ANALYSIS BY: Cecile.Felsher

CALCULATION SEQUENCE NUMBER: TNM SERIAL NUMBER:

PROJECT/CONTRACT:

Roadway Name	Road Segment			Auto				Medium Truck				Heavy Truck				Bus				Motorcycle			
	Start Point		ADT	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed
	Name	No.																					
			[Veh/24 hr]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]
Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
	Point-1	1	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
	Point-3	2	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
	Point-5	1	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
	Point-7	2	8000	95	95	95	45	4	4	4	45	1	1	1	45	0	0	0	0	0	0	0	0
Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	9500	98	98	98	45	2	2	2	45	0	0	0	0	0	0	0	0	0	0	0	0
	Point-13	1	9500	98	98	98	45	2	2	2	45	0	0	0	0	0	0	0	0	0	0	0	0
Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	9500	98	98	98	45	2	2	2	45	0	0	0	0	0	0	0	0	0	0	0	0
	Point-19	1	9500	98	98	98	45	2	2	2	45	0	0	0	0	0	0	0	0	0	0	0	0

REPORT:	**RESULTS: SOUND-LEVEL DIAGNOSIS BY ROAD SEGMENT**		
TNM VERSION:	3.0.7.60002	REPORT DATE:	27 April 2021
CALCULATED WITH:	3.0.7.60002	CALCULATION DATE:	4/27/2021 1:08:39 PM
CASE:	Delivery Station - West Covina, CA Existing	ORGANIZATION:	
ANALYSIS BY:	Cecile.Felsher	PROJECT/CONTRACT:	
ATMOSPHERICS:	68°F, 50%	DEFAULT GROUND TYPE:	HardSoil

Selected Receivers		Total	Important Roadways	Important Segments		Partial
Name	No.	Lden	Name	Name	No.	Lden
		dBA				dBA
Receiver-1	1	65.6	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	43.1
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	39.2
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	43.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	39.2
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	43.1
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	43.1
Receiver-3	3	59.9	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	52.1
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	50.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	52.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	50.1
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	52.1
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	52.1
Receiver-6	6	66.8	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	60.9
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	33.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	60.9
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	33.1
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	60.9
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	60.9

REPORT: **INPUT TRAFFIC FOR TNM VEHICLES (Lden)**

TNM VERSION: 3.0.7.60002 REPORT DATE: 27 April 2021

CALCULATED WITH: 3.0.7.60002 CALCULATION DATE: 4/27/2021 10:44:23 PM

CASE: Delivery Station - Existing + Project ORGANIZATION:

PATH: ANALYSIS BY: Cecile.Felsher

CALCULATION SEQUENCE NUMBER: TNM SERIAL NUMBER:

PROJECT/CONTRACT:

Roadway Name	Road Segment			Auto				Medium Truck				Heavy Truck				Bus				Motorcycle			
	Start Point		ADT	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed	D	E	N	Speed
	Name	No.																					
			[Veh/24 hr]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]	[%]	[%]	[%]	[mph]
Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
	Point-1	1	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
	Point-3	2	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
	Point-5	1	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
	Point-7	2	8386	95	95	94.5	45	4	3.6	3.7	45	1	1.4	1.8	45	0	0	0	0	0	0	0	0
Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	9571	98	98.2	98	45	2	1.8	2	45	0	0	0	0	0	0	0	0	0	0	0	0
	Point-13	1	9571	98	98.2	98	45	2	1.8	2	45	0	0	0	0	0	0	0	0	0	0	0	0
Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	9571	98	98.2	98	45	2	1.8	2	45	0	0	0	0	0	0	0	0	0	0	0	0
	Point-19	1	9571	98	98.2	98	45	2	1.8	2	45	0	0	0	0	0	0	0	0	0	0	0	0

REPORT:	**RESULTS: SOUND-LEVEL DIAGNOSIS BY ROAD SEGMENT**		
TNM VERSION:	3.0.7.60002	REPORT DATE:	27 April 2021
CALCULATED WITH:	3.0.7.60002	CALCULATION DATE:	4/27/2021 10:44:23 PM
CASE:	Delivery Station - Existing + Project	ORGANIZATION:	
ANALYSIS BY:	Cecile.Felsher	PROJECT/CONTRACT:	
ATMOSPHERICS:	68°F, 50%	DEFAULT GROUND TYPE:	HardSoil

Selected Receivers		Total	Important Roadways	Important Segments		Partial
Name	No.	Lden	Name	Name	No.	Lden
		dBA				dBA
Receiver-1	1	66.0	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	43.1
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	39.7
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	43.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	39.7
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	43.1
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	43.1
Receiver-3	3	60.3	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	52.1
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	50.5
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	52.1
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	50.5
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	52.1
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	52.1
Receiver-6	6	66.8	Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-0	0	61.0
			Westbound San Bernardino - N Lark Ellen Ave to N Vincent Ave	Point-1	1	33.6
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-4	0	61.0
			Eastbound San Bernardino - N Vincent Ave to N Lark Ellen Ave	Point-5	1	33.6
			Eastbound Badillo - N Vincent Ave to N Lark Ellen Ave	Point-12	0	61.0
			Westbound Badillo - N Lark Ellen Ave to N Vincent Ave	Point-18	0	61.0

APPENDIX D – RCNM Construction Model

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/28/2021
Case Description:

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
1431 Cutler Way	Residential	61.9	56.7	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compactor (ground)	No	20		83.2	500	0
Grader	No	40	85		500	0
Paver	No	50		77.2	500	0
Backhoe	No	40		77.6	500	0
Excavator	No	40		80.7	500	0
Front End Loader	No	40		79.1	500	0

Equipment	Results Calculated (dBA) *Lmax	Leq	Noise Limits (dBA) Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq	Noise Limit Exceedance (dBA) Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Compactor (ground)	63.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	65	61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	57.2	54.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	57.6	53.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	60.7	56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	59.1	55.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65	64.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
1350 E San Bernardino Road	Residential	55.4	51.7	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compactor (ground)	No	20		83.2	220	0
Grader	No	40	85		220	0
Paver	No	50		77.2	220	0
Backhoe	No	40		77.6	220	0

Excavator	No	40	80.7	220	0
Front End Loader	No	40	79.1	220	0

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compactor (ground)	70.4	63.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	72.1	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	64.4	61.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	64.7	60.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	67.8	63.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	66.2	62.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.1	71.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
1209 E Elgenia Avenue	Residential	67.2	56.7	55

Equipment

	Impact		Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compactor (ground)	No	20		83.2	350	0
Grader	No	40	85		350	0
Paver	No	50		77.2	350	0
Backhoe	No	40		77.6	350	0
Excavator	No	40		80.7	350	0
Front End Loader	No	40		79.1	350	0

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compactor (ground)	66.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	68.1	64.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	60.3	57.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.7	56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	63.8	59.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	62.2	58.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	68.1	67.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

APPENDIX E – Trip Generation Count

DAX9 in West Covina, CA - Site Specific

	Associates			Trucks			DSP Drivers			DSP Vans			Flex			Total		
Time	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
00:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
00:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
01:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
01:30	70	0	70	0	0	0	0	0	0	0	0	0	0	0	0	70	0	70
02:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
02:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
04:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
05:30	19	0	19	0	1	1	0	0	0	0	0	0	0	0	0	19	1	20
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
07:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
08:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
09:00	0	0	0	0	0	0	11	0	11	0	0	0	0	0	0	11	0	11
09:30	0	0	0	1	0	1	43	0	43	0	0	0	0	0	0	44	0	44
10:00	0	0	0	0	1	1	52	0	52	0	36	36	0	0	0	52	37	89
10:30	0	0	0	0	0	0	21	0	21	0	72	72	0	0	0	21	72	93
11:00	0	0	0	0	0	0	0	0	0	0	34	34	0	0	0	0	34	34
11:30	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30	0	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70	70
13:00	19	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19
13:30	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17	0	17
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30	0	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	0	0	39	0	39	39	0	39
16:30	0	0	0	1	0	1	0	0	0	0	0	0	6	18	24	7	18	25
17:00	0	0	0	0	1	1	0	0	0	0	0	0	0	27	27	0	28	28
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	17	17	1	0	1	0	0	0	0	0	0	0	0	0	1	17	18
18:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
19:00	0	0	0	1	0	1	0	8	8	9	0	9	0	0	0	10	8	18
19:30	0	0	0	0	1	1	0	16	16	45	0	45	0	0	0	45	17	62
20:00	0	0	0	1	0	1	0	56	56	36	0	36	0	0	0	37	56	93
20:30	0	0	0	0	1	1	0	24	24	45	0	45	0	0	0	45	25	70
21:00	0	0	0	0	0	0	0	23	23	7	0	7	0	0	0	7	23	30
21:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
22:00	0	19	19	0	1	1	0	0	0	0	0	0	0	0	0	0	20	20
22:30	0	4	4	1	0	1	0	0	0	0	0	0	0	0	0	1	4	5
23:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
23:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Total	**129**	**129**	**258**	**14**	**14**	**28**	**127**	**127**	**254**	**142**	**142**	**284**	**45**	**45**	**90**	**457**	**457**	**914**

1st Shift:	2:00 AM	12:30 PM	78	Assoc.	27%
2nd Shift:	6:00 AM	2:30 PM	21	Assoc.	7%
3rd Shift:	1:30 PM	10:00 PM	21	Assoc.	7%
PFSD Shift:	2:00 PM	6:00 PM	19	Assoc.	7%
RTS Shift:	12:00 PM	10:30 PM	4	Assoc.	1%
Drivers:	9:20 AM	9:10 PM	142	Drivers	50%

Inputs to Table

0.90 Trip Reduction Factor
Site Specific
FPH = 9000
Sort Zones = 3408
Loading Spots = 36
SPR = 249

Appendix G

Traffic Impact Study

TRAFFIC IMPACT STUDY FOR

WEST COVINA DELIVERY STATION

DATE:
June 22, 2021

LOCATION:
1200 E San Bernardino Road
West Covina, California

PREPARED FOR:
Psomas
5 Hutton Center Drive
Suite 300
Santa Ana, CA 92707

PREPARED BY:
NV5 Engineers & Consultants
1255 Canton Street, Suite G
Roswell, GA 30075

Engineer in Responsible Charge:
Victoria Guobaitis, TE, PE, PTOE



NV5
nv5.com

Executive Summary

An e-commerce company proposes to lease the property spanning the block from W San Bernardino Road to Badillo Street, midway between N Vincent and N Lake Ellen Avenues in the City of West Covina, California. The site is currently occupied by Faith Church and, until recently, its associated private school. Modifications would be made to the existing 177,440 square-foot building, existing parking areas would be restriped, and barriers erected to separate line-haul truck traffic from the southern portion of the site.

Access to the site is proposed at seven existing driveways, with two of those on San Bernardino Road shifted to better serve the facility's layout and provide safe access near Cutter Way. The facility would operate 24 hours a day, 7 days a week. Employee and delivery shifts are designed to avoid typical commuting peak periods. Approximately 14 line-haul (tractor trailer) trucks per day will deliver packages from a larger sorting facility. Most of these trucks (11) will arrive and depart after the evening commuting peak period and before the morning peak commuting period. The remainder will be spread throughout the day. The facility will typically generate a total of 914 trips per day. Of these, 602 would be passenger vehicles, 284 would be delivery vans and 28 would be tractor-trailer trucks. Typically, only one vehicle would access the site during the morning peak hour. Another 64 trips would occur during the evening peak hour. The facility would produce more traffic during the mid-morning and late evening than during normal commuting peak hours. Between 10:00 and 11:00 AM 182 trips would be expected. Then between 8:00 and 9:00 PM when delivery routes are completed another 163 trips are expected.

Most study intersections, including site driveways, are expected to operate at LOS D or better under all conditions in the facility's opening year of 2021. The only exception is the intersection of Badillo Street at Azusa Avenue. It is expected to operate at LOS E during the AM peak hour of the adjacent street under all conditions and in the PM peak hour of the adjacent street under the Cumulative No Build and Cumulative Build conditions with only a .001 increase in the V/C ratio during the AM Peak, well below the significance threshold of 0.02.

The Build conditions do not increase volume/capacity ratios or delays enough to change the LOS at any intersections or driveways.

The intersection of San Bernardino Road at Cutter Way and the site's realigned westernmost driveway will be signalized. A portion of San Bernardino Road will be restriped to provide a left-turn lane into the site at that location. Crosswalks will be added, and pedestrian phases will be included in the signal design.

With at least 15% of the tenant's employees eligible for Alternative Transportation Benefits, the proposed delivery station will have a less than significant VMT impact.

TABLE OF CONTENTS

Executive Summary i
A. Introduction 1
A.1. Project Overview 2
A.2. Site Location & Study Area Boundaries 2
B. Project Description and Location 5
B.1. Site Description and Operational Summary 5
B.2. Existing Surface Transportation Network 7
C. Methodology and Thresholds 8
C.1. Traffic Counts and Adjustments 9
C.2. Analysis Time Periods 9
C.3. Adjacent Development 9
C.4. No Build Traffic 9
D. LOS Analysis 15
D.1. Trip Generation 15
D.2. Trip Distribution and Assignment 16
D.3. Traffic Volumes 16
D.4. Cumulative Development Projects 17
D.5. Traffic Signal Warrant Analysis 32
D.6. Traffic Analysis Results 32
D.7. Queuing Analysis 35
E. Peak Season Operations 36
F. Site Access, Parking, and Circulation 37
G. Active Transportation and Public Transit Analysis 39
H. Vehicle Miles Traveled (VMT) Analysis 40
I. Conclusion and Recommendations 42
I.1. Key Findings 42
I.2. Mitigation Measures 42

LIST OF TABLES

Table 1: Level of Service (LOS) Criteria 8
Table 2: Project Trip Generation 15
Table 3: Left Turning Site Traffic at Driveway 7 17
Table 4: Cumulative Development Projects 29
Table 5a: Signalized Intersections Capacity Analysis (Adjacent Street Peak) 33
Table 5b: Signalized Intersections Capacity Analysis (Generator Peak) 33
Table 5c: Signalized Intersections Capacity Analysis (Cumulative Conditions) 33
Table 6: Unsignalized Intersections Capacity Analysis 34
Table 7: Queuing Analysis 35
Table 8: Parking Requirements & Provisions 37
Table 9: Delivery Vehicle Miles Traveled 41

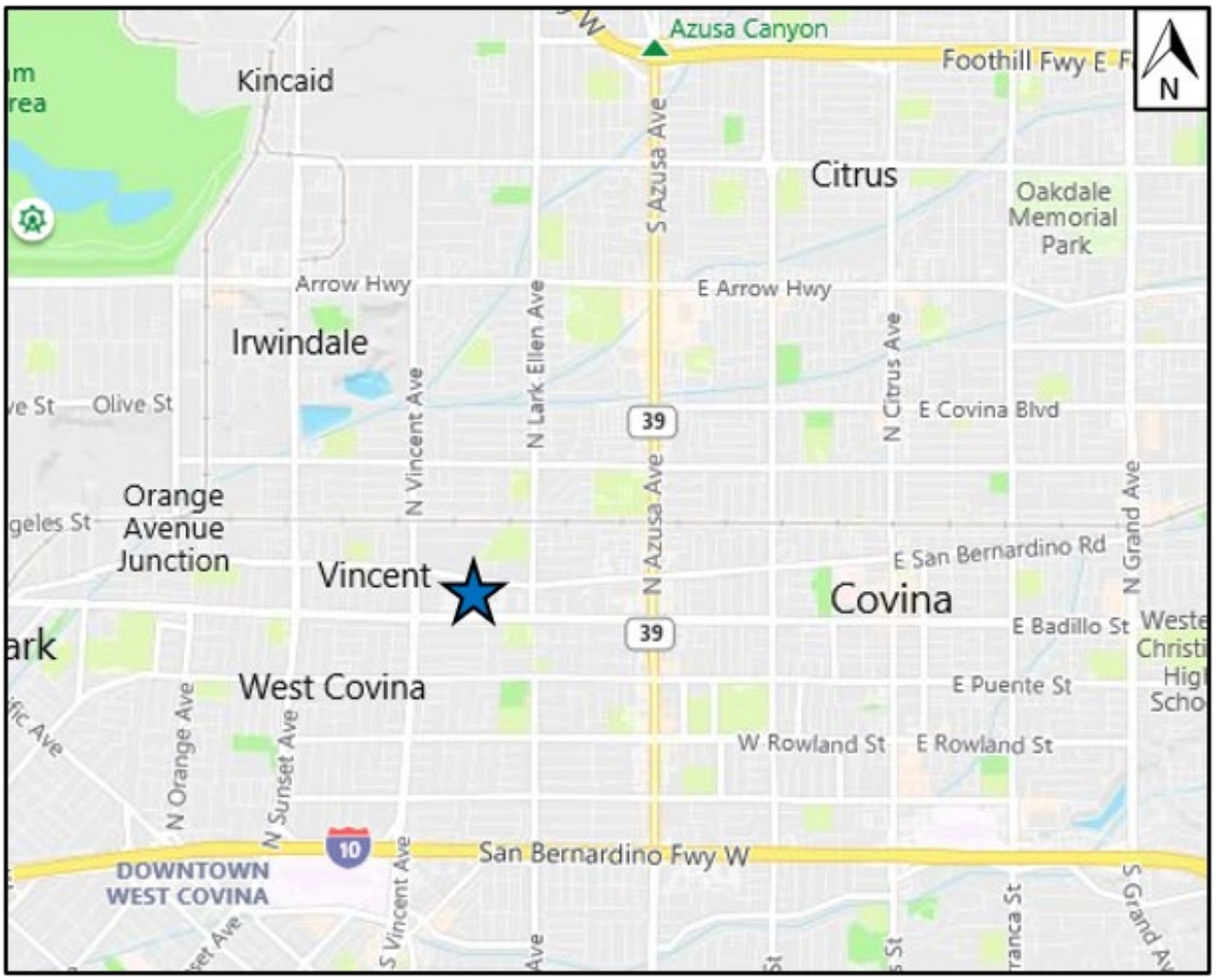
LIST OF FIGURES

Figure 1. Vicinity Map 1
Figure 2. Site Layout 3
Figure 3. Study Intersections 4
Figure 4. Site Plan 6
Figure 5: AM & PM Peak Hour of the Adjacent Street Converted Existing Traffic Volumes 10
Figure 6: AM & PM Peak Hour of the Generator Converted Existing (2021) Volumes 11
Figure 7: Cutter Way Residential Development Traffic 11
Figure 8: AM & PM Peak Hour of the Adjacent Street No Build (2021) Traffic Volumes 13
Figure 9: AM & PM Peak Hour of the Generator No Build (2021) Traffic Volumes 14
Figure 10: Service Area 16
Figure 11: Truck Routes 16
Figure 12. Truck Traffic Trip Assignment 18
Figure 13. Employee Traffic Trip Assignment 19
Figure 14: Van Driver Traffic Trip Assignment 20
Figure 15: Delivery Vehicle Traffic Trip Assignment 21
Figure 16: AM Peak Hour of the Adjacent Street Site Traffic Volumes 22
Figure 17: PM Peak Hour of the Adjacent Street Site Traffic Volumes 23
Figure 18: AM Peak Hour of the Generator Site Traffic Volumes 24
Figure 19: PM Peak Hour of the Generator Site Traffic Volumes 25
Figure 20: AM & PM Peak Hour of the Adjacent Street Build Traffic Volumes 26
Figure 21: AM & PM Peak Hour of the Generator Build Traffic Volumes 27
Figure 22: Cumulative Development Site Locations 28
Figure 23: AM & PM Peak Hour of the Adjacent Street Cumulative Development Traffic Volumes 30
Figure 24: AM & PM Peak Hour of the Adjacent Street Cumulative Build Traffic Volumes 31
Figure 25: Sight Distance Details 38

A. Introduction

A parcel delivery station facility is proposed to span the block from W San Bernardino Road to Badillo Street, midway between N Vincent and N Lake Ellen Avenues in the City of West Covina, California. The facility is planned to occupy an existing 177,440 square-foot (SF) warehouse/industrial type building, currently occupied by a church and until recently its associated private school. Figure 1 indicates the location of the project site relative to the local and regional roadway network.

Figure 1. Vicinity Map



This traffic impact study (TIS) was prepared to determine the amount of traffic expected to be added to the adjacent roadway network due to the project and identify any improvements necessary to mitigate the impacts of any additional traffic. To complete this determination, NV5 has undertaken the following tasks:

- Conducted inspections of the site and surrounding roadway network to obtain an existing inventory of the roadway geometry, traffic control, and surrounding land uses.

- Determined existing traffic conditions by performing intersection turning movement counts at key intersections in the vicinity of the proposed project during the weekday morning and weekday evening peak hours as well as the peak hour of the proposed site.
- Estimated the amount of traffic to be generated by the proposed development utilizing tenant supplied trip data for the intended operation of the site.
- Distributed this traffic throughout the study area based on the site's anticipated general service area and the resident locations of the area's employees from the 2010 census.
- Completed capacity analyses for No-Build (2021), Build (2021), and Cumulative Build (2021) Conditions throughout the study area.
- Evaluated on-site parking, access, and circulation
- Determined project consistency with adopted policies, plans, and programs regarding active transportation or public transit facilities
- Evaluated potential VMT impacts

This report represents a summary of our findings and recommendations regarding the proposed project.

A.1. Project Overview

Delivery stations are the last stop staging facilities for e-commerce companies' parcels that are not delivery by traditional postal services (USPS, UPS, FedEx). They operate 24 hours a day, 7 days a week. Employee and delivery shifts are designed to avoid typical commuting peak periods. Line-haul (tractor trailer) trucks deliver packages from sorting facilities primarily arriving and departing during the evening and overnight. Delivery vans begin exiting the site mid-morning, typically returning to the site beginning around 7:00 PM. Drivers park the vans and leave via their personal vehicles. The tenant also expects to use flex delivery drivers who will access the site between 4:00 and 6:00 PM to pick up packages and deliver them to customers via their personal vehicles. Figure 2 provides an overview of the proposed site layout including driveway modifications, truck court, parking, and staging areas. Vans will be loaded inside the building.

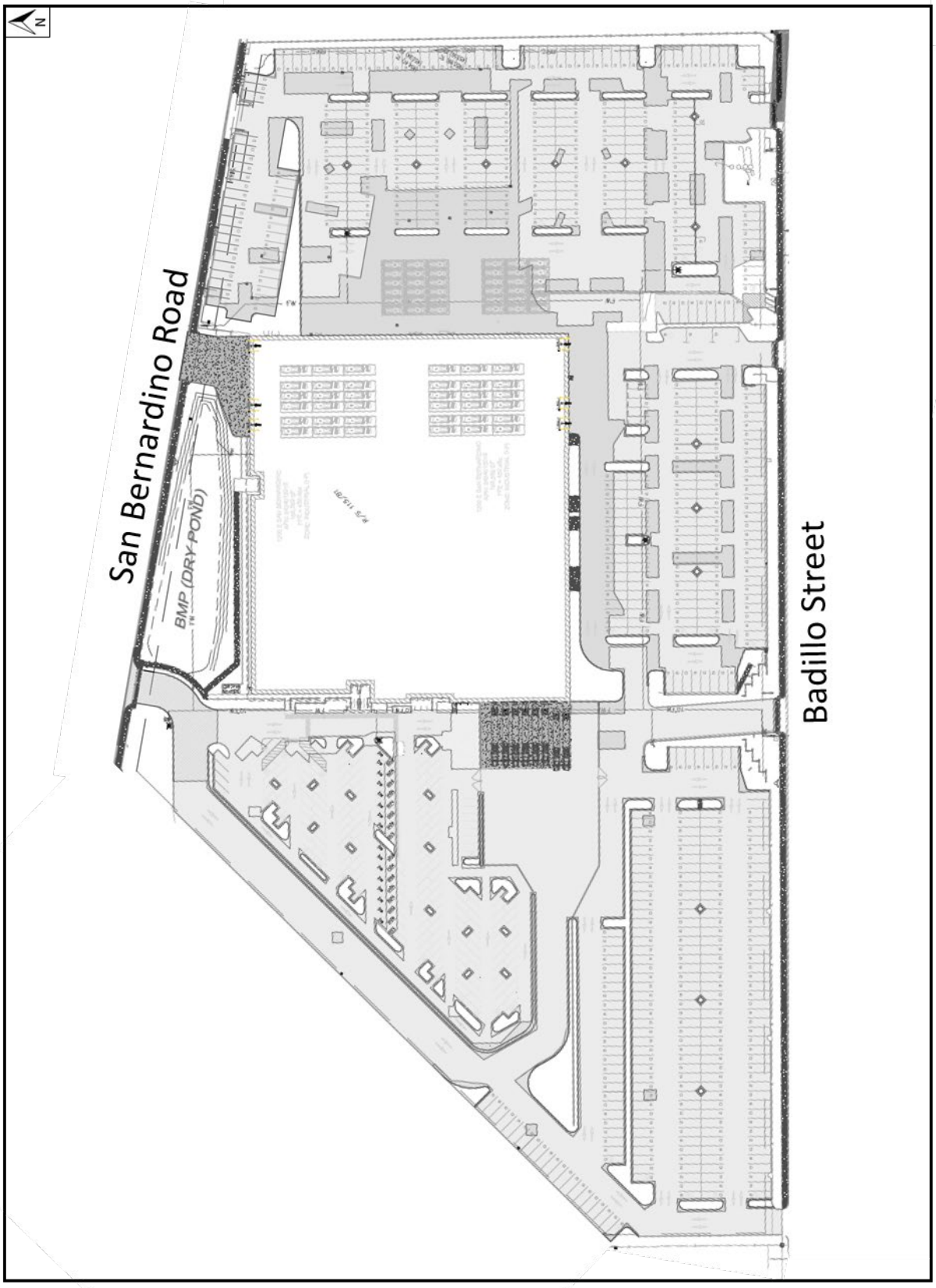
A.2. Site Location & Study Area Boundaries

The scope of this study was based on the City of West Covina's TIA Guidelines, adopted in September 2020, and additional coordination with the City as well as the City of Covina and the City of Baldwin Park.

The study includes analysis of the No Build, Build, and Cumulative Build conditions at the following intersections:

1. San Bernardino Road at Vincent Avenue
2. San Bernardino Road at Cutter Way
3. San Bernardino Road at Lark Ellen Avenue
4. San Bernardino Road at Rimsdale Avenue
5. San Bernardino Road at Azusa Avenue

Figure 2. Site Layout



6. Badillo Street at Vincent Avenue
7. Badillo Street at Lark Ellen Avenue
8. Badillo Street at Rimsdale Avenue
9. Badillo Street at Azusa Avenue

In additional to site's driveway opposite Cutter Way, four site driveways on Badillo Street (D1 – D4) as well as two site driveways (D5 – D6) on San Bernardino were evaluated for operational and queueing estimate purposes. Figure 3 illustrates the study intersections superimposed on existing aerial imagery.

Figure 3. Study Intersections



B. Project Description and Location

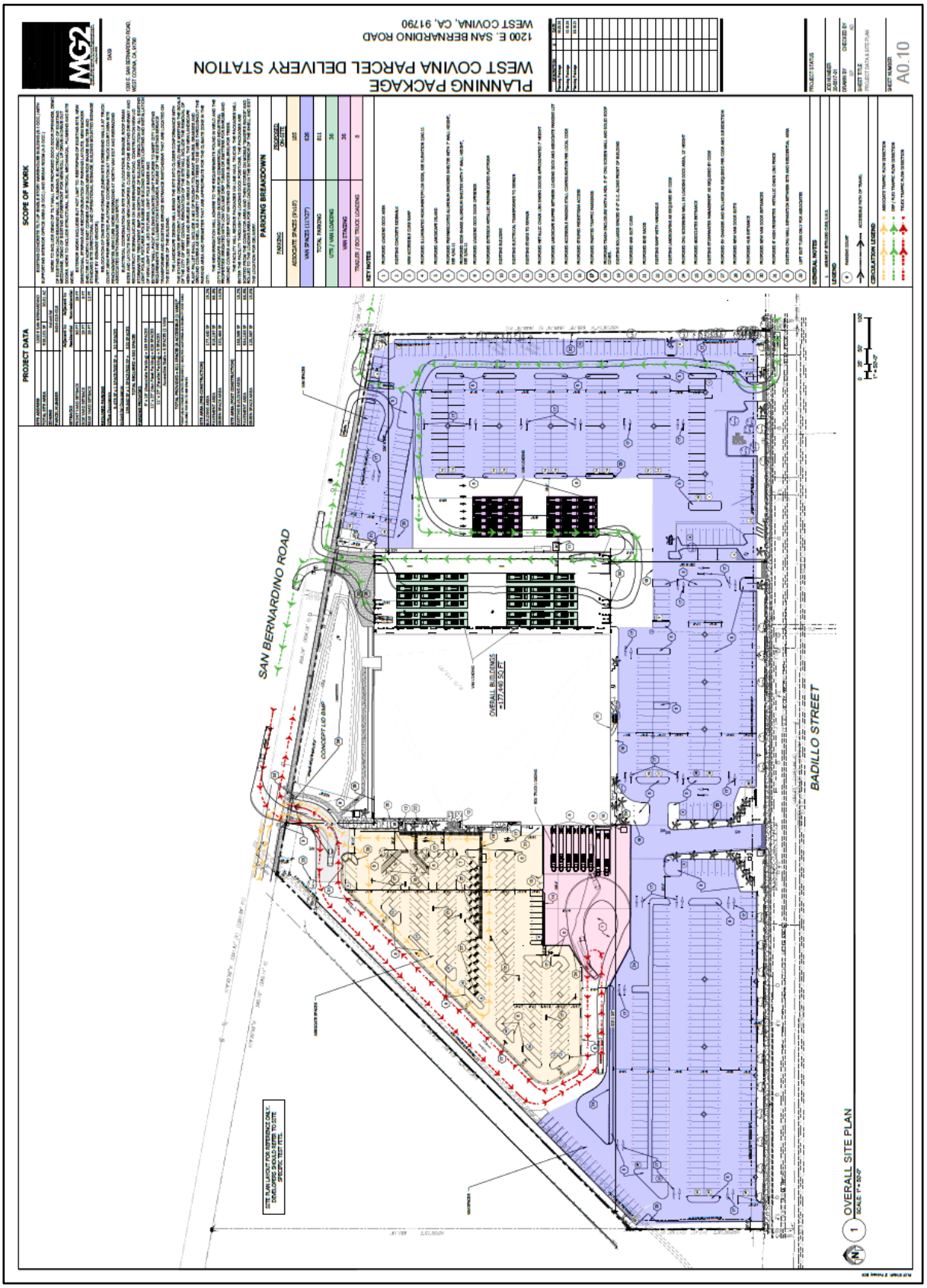
The site, located at 1211 E Badillo Street/1200 E San Bernardino Road, is occupied by Faith Church and until recently its associated private school. It is accessed from Badillo Street via four driveways and San Bernardino Road via three driveways. The two westernmost driveways on Badillo Street have full access with left turn lanes carved from the landscaped median. The other two are restricted to right turns. All three driveways on San Bernardino Road currently have full access, but none feature a left-turn lane from San Bernardino Road. The easternmost of these driveways will be restricted to right turns and the central driveway will be limited to exiting delivery vehicles.

B.1. Site Description and Operational Summary

The site is proposed for conversion to a parcel delivery station for an e-commerce company. Existing parking areas will be restriped, and barriers erected to separate line-haul truck traffic from passenger traffic beyond the westernmost driveway to San Bernardino Road. A total of 811 parking spaces will be provided, 185 for passenger vehicles and 626 for vans (and van drivers). Eight loading docks will be located on the west side of the building and will also be divided from delivery driver and vehicle parking areas and more importantly Badillo Street by physical barriers. A hardscaped (or partially paved) courtyard on the east side of the building will be converted to stage delivery vehicles prior to entering the east side of the building for loading. Access to the site is proposed at seven existing driveways. The westernmost driveway on San Bernardino Road will be shifted east to align with Cutter Way. The middle driveway on San Bernardino will be shifted west to operate as an exclusive exit only for delivery vehicles.

The facility will operate 24 hours a day, 7 days a week. Employee and delivery shifts are designed to avoid typical commuting peak periods. Typically, 14 line-haul (tractor trailer) trucks per day will deliver packages from a larger sorting facility about 20 miles southeast of the site. Most of these trucks (11) will arrive and depart after the evening commuting peak period and before the morning peak commuting period. The remainder will be spread throughout the day. Typically, the only site traffic during the AM commuting period is one of these trucks. All trucks will access the site through the westernmost driveway on San Bernardino Road. Employees (excluding delivery drivers) will arrive in shifts. They will use the same driveway as the line-haul trucks. Delivery drivers begin arriving as much as 90 minutes prior to the scheduled departure of the delivery vans to prepare for their routes and load in an efficient manner. Drivers can access the site via either the easternmost driveway on San Bernardino Road or any of the four on Badillo Street but will park on the western side of the site. As scheduled, they will line up before entering the building to load. Delivery vans begin exiting the site mid-morning via the exclusive exit to San Bernardino Road. They typically return to the site beginning around 7:00 PM entering via either the easternmost driveway on San Bernardino Road or any of the four on Badillo Street. Drivers park the vans and exit with their personal vehicles through these driveways as well. Flex drivers and possibly a line-haul truck are the only vehicles accessing the site during the typical PM commuting peak. Flex drivers enter and exit the site as if they were delivery vans.

Figure 4. Site Plan



B.2. Existing Surface Transportation Network

SAN BERNARDINO ROAD is a four to five lane divided east-west route with on-street parking where pavement width and side street or driveway sight requirements allow. West of the site, it features a two-way-left-turn-lane (TWLTL) and no on-street parking. Along the site's frontage and further eastward, where pavement is not required for travel lanes, on-street parking is allowed. Near the site, land uses vary from single family residential to industrial uses. The posted speed limit is 40 miles per hour (MPH). Sidewalks are available on both sides of San Bernardino Road. San Bernardino Road provides the only truck access for the site.

BADILLO STREET is a four-lane divided east-west arterial with a raised, landscaped median. The median has openings at signalized intersections and more significant side streets and driveways. West of Lark Ellen Avenue, it is posted at 40 MPH, while to the east it is posted at 45 MPH. It also has sidewalks along both sides and some on-street parking is allowed adjacent to the westbound lanes. Parking is prohibited along the south side of Badillo Street in the vicinity of the site. Single family homes dominate development on the south side of Badillo Street while development along the north side varies from multi-family residential to industrial uses.

VINCENT AVENUE is a north-south route with four travel lanes. South of San Bernardino it is divided by a raised median and alternating left-turn lanes. Sidewalks are available on both sides of Vincent Avenue. North of San Bernardino Road it is posted at 40 to 45 MPH. South of San Bernardino Road it is posted at 35 MPH.

LARK ELLEN AVENUE is a four-lane north-south route with left-turn lanes at major cross streets and on-street parking where pavement width allows. Both sides of the street have sidewalks and the posted speed limit is 40 MPH. Land uses along Lark Ellen Avenue are primarily residential and institutional.

RIMSDALE AVENUE is a two-lane north-south local street beginning about a block north of San Bernardino Road and ending at Badillo Street. It connects a gated multi-family residential development to Vincent Avenue, but is largely developed with commercial uses. It is also lined with sidewalks and has a regulatory speed limit of 25 MPH.

AZUSA AVENUE is a four-lane north-south divided State Highway (SR 39). It has a posted speed limit of 40 MPH and sidewalks along both sides. It is generally developed with commercial uses but has a pocket of residential uses just south of Badillo Street.

C. Methodology and Thresholds

For non CEQA purposes, the City of West Covina and the City of Covina use the Intersection Capacity Utilization (ICU) methodology to evaluate signalized intersection operations but different standards for lane capacities and clearance/lost time intervals. To be most conservative, the City of Covina's land use capacities (1,600/lane) and the City of West Covina's clearance/lost time intervals (0.100) were used in the analysis. Both Cities use the Highway Capacity Manual methodology to evaluate unsignalized intersections. The City of West Covina has adopted Level-of-Service (LOS) E, and the city of Covina LOS D as acceptable. Furthermore, within the City of West Covina if a project increases the volume/capacity (V/C) ratio at a signalized by two percent or more and the intersection's LOS drops from E to F the City may require improvements or other strategies to reduce the V/C ratio to acceptable levels. At unsignalized intersections the City may also require improvements if the LOS degrades from E to F or if an intersection is already operating at LOS F and the project increases the total peak hour volume by ten percent or more. The City of Covina considers improvements if an intersection LOS degrades to LOS F and the project increases the V/C ratio by one percent. Table 1 summarizes the LOS criteria for both Cities.

Table 1: Level of Service (LOS) Criteria

LOS	Signalized Intersection (V/C)	Unsignalized Intersection (Delay in sec/veh)	Description
A	≤0.600	≤10.0	EXCELLENT. Operations with very low delay and most vehicles do not stop.
B	>6.000 to ≤0.700	>10.0 to ≤ 15.0	VERY GOOD. Operations with good progression but with some restricted movements.
C	>7.000 to ≤0.800	>15.0 to ≤ 25.0	GOOD. Operations where a significant number of vehicles are stopping with some backup and light congestion.
D	>8.000 to ≤0.900	>25.0 to ≤ 35.0	FAIR. Operations where congestion is noticeable, longer delays occur, and many vehicles stop. The proportion of vehicles not stopping declines.
E	>9.000 to ≤1.000	>35.0 to ≤ 50.0	POOR. Operations where there is high delay, extensive queuing, and poor coordination.
F	>1.000	>50.0	FAILURE. Operations that are unacceptable to most drivers, when the arrival rates exceed the capacity of the intersection.

The City of West Covina has also adopted criteria for evaluating Vehicle Miles of Travel for determination of traffic related CEQA impacts. These include project screening criteria that if satisfied allow the presumption that a project's impacts are less than significant, use of the San Gabriel Valley Council of Government's (SGVCOG) VMT Evaluation Tool, and travel demand modeling. Where a project does not satisfy the screening criteria, the City has adopted a threshold of fifteen percent less than the SGVCOG baseline VMT/service population for determination of significance.

The project type screening is applicable in that as a redevelopment project, if the delivery station generates less than 110 new daily vehicle trips (or 110 more daily vehicle trips than the existing land use), its impacts would be considered less than significant.

C.1. Traffic Counts and Adjustments

The delivery station is scheduled to open in 2021. As a result of Covid-19, road usage has fallen considerably across the country. To account for this, historic turning movement counts (TMCs) were gathered at several study intersections from 2019 and compared to newly collected 2021 TMCs. The comparison indicated the 2019 AM peak hour traffic was 124% greater than the 2021 AM peak hour traffic and that the 2019 PM peak hour traffic was 25% greater than the 2021 PM peak hour traffic. The difference in the comparisons between the AM peak hours and the PM peak hour is likely due to the absence of school traffic in 2021. The difference in the PM peak hours is more consistent with daily traffic comparisons between pre-pandemic and pandemic conditions. TMCs were modified to reflect additional traffic that would have been present in 2021 by applying percentage-based adjustments and increasing the volumes to reflect two years of growth at one percent annually. Left turns onto Cutter Way were also adjusted during the AM Peak Hour of the adjacent street to reflect a volume closer to that counted in 2019. Newly collected traffic data is included in Appendix A while development and application of these adjustment is documented Appendix B.

C.2. Analysis Time Periods

The proposed delivery station generates the most trips outside the typical computing peak periods. The AM (10:00 – 11:00) and PM (8:00 – 9:00) peak hours of the generator are included in the analysis along with the peak hours of the adjacent street network. Adjusted peak hour volumes are displayed in Figures 5 and 6.

C.3. Adjacent Development

Traffic estimated for the 529 Cutter Way Live/Work Project as documented in its Transportation Impact Study dated September 10, 2020, was included as existing traffic in 2021, even though that project is not anticipated to be built out until 2023. That development's traffic is shown in Figure 7.

C.4. No Build Traffic

No Build 2021 traffic is illustrated in Figures 8 and 9 and includes the adjusted turning movement counts and the Cutter Way residential development traffic.

Figure 5: AM & PM Peak Hour of the Adjacent Street Converted Existing Traffic Volumes

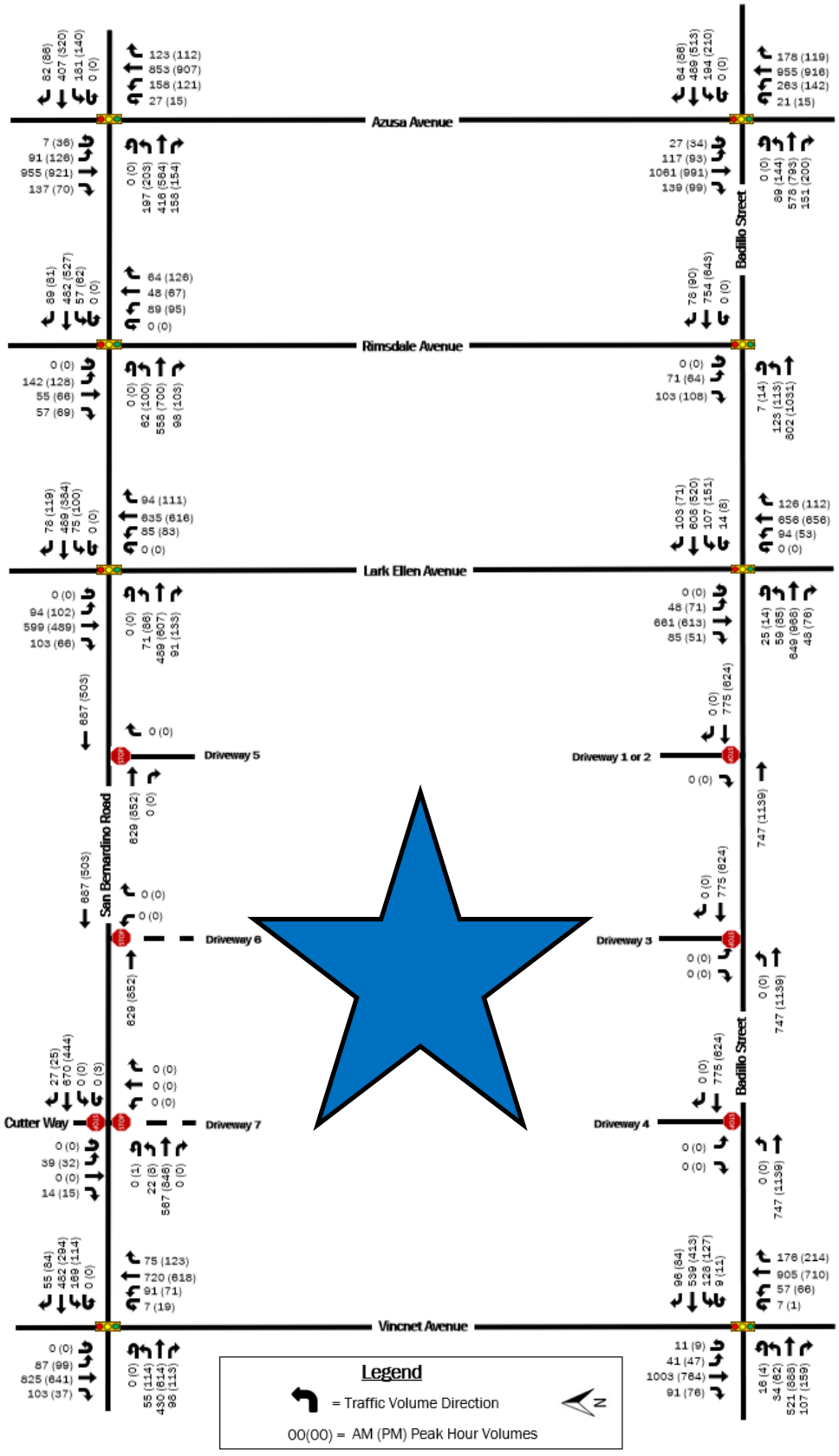


Figure 6: AM & PM Peak Hour of the Generator Converted Existing (2021) Volumes

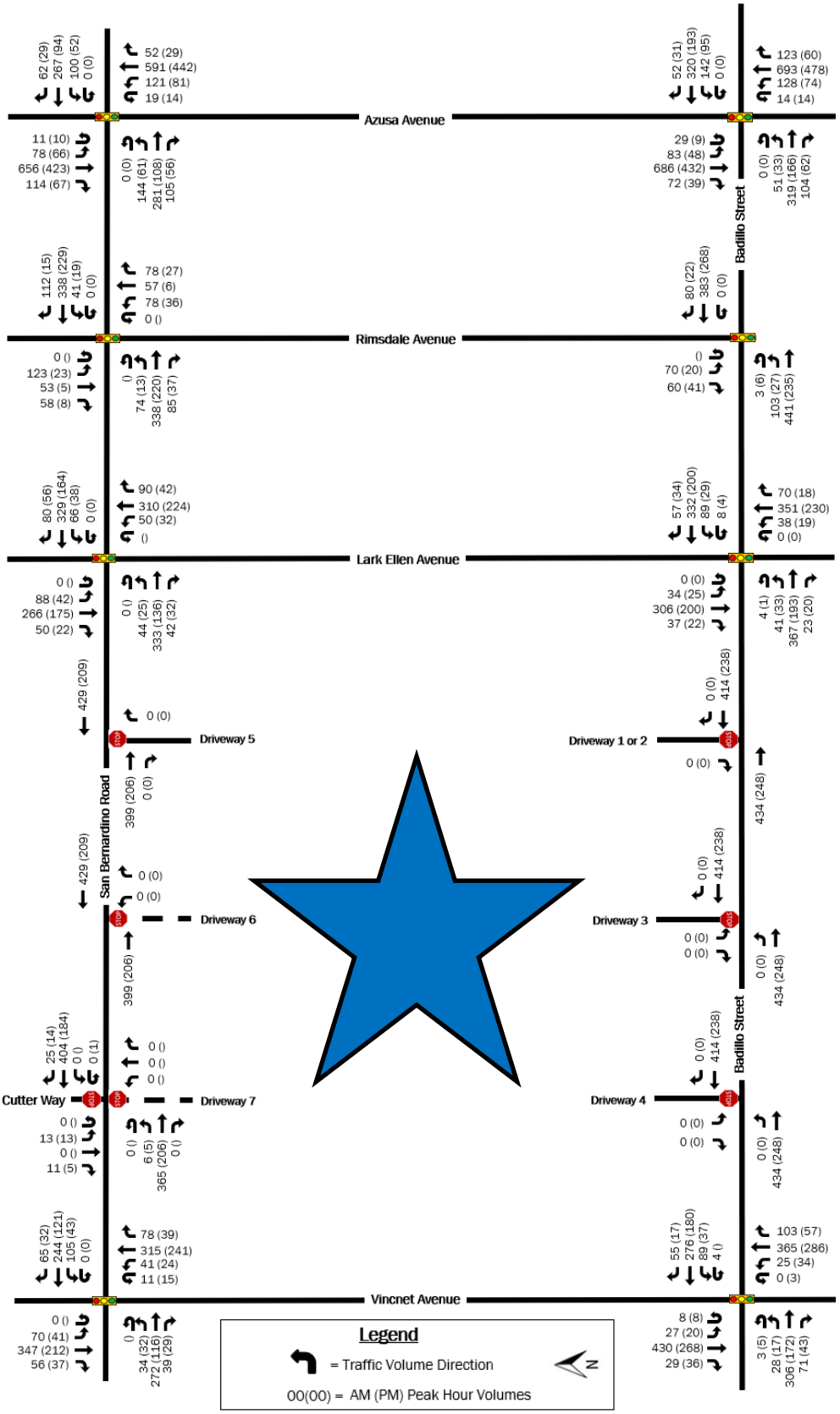


Figure 7: Cutter Way Residential Development Traffic

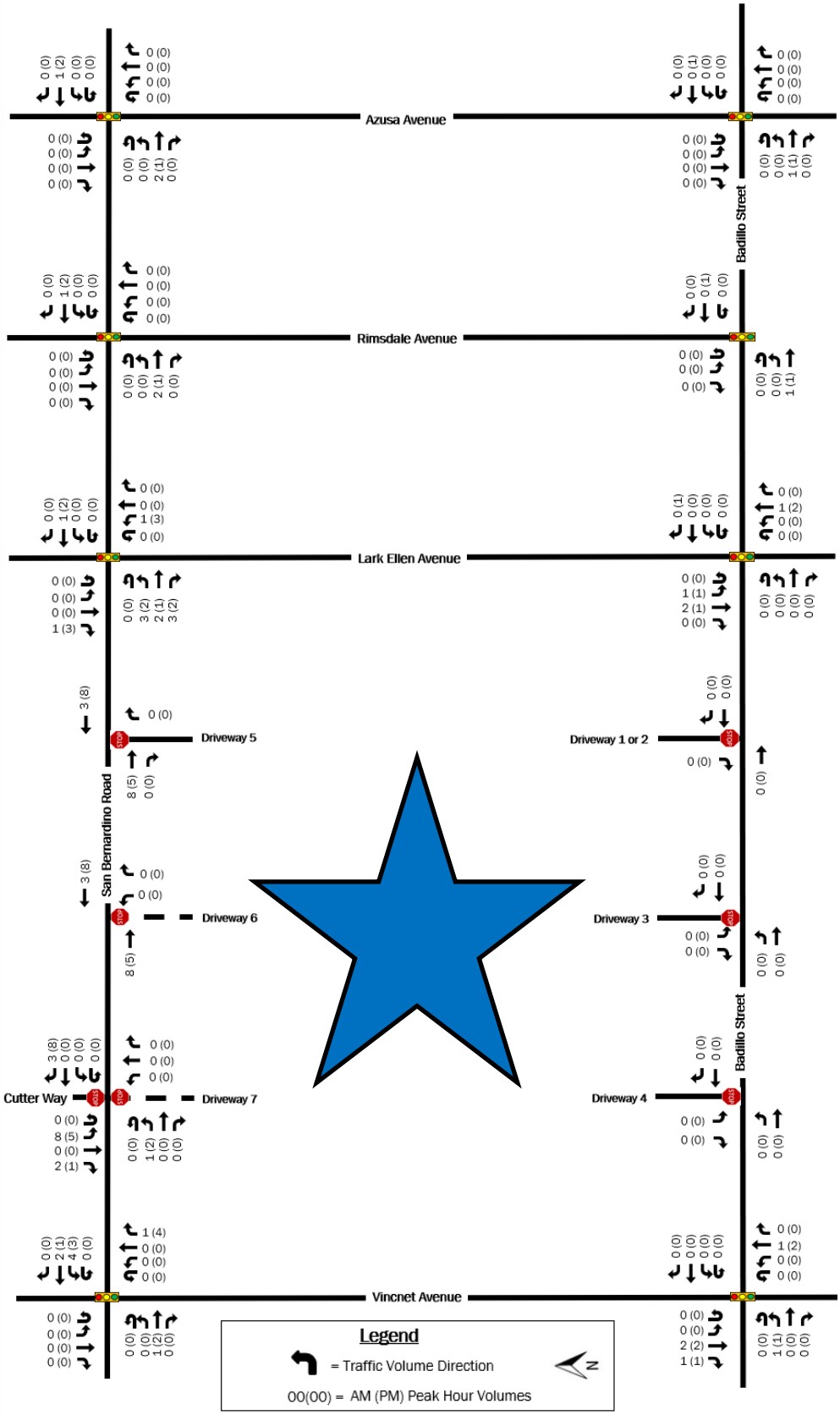


Figure 8: AM & PM Peak Hour of the Adjacent Street No Build (2021) Traffic Volumes

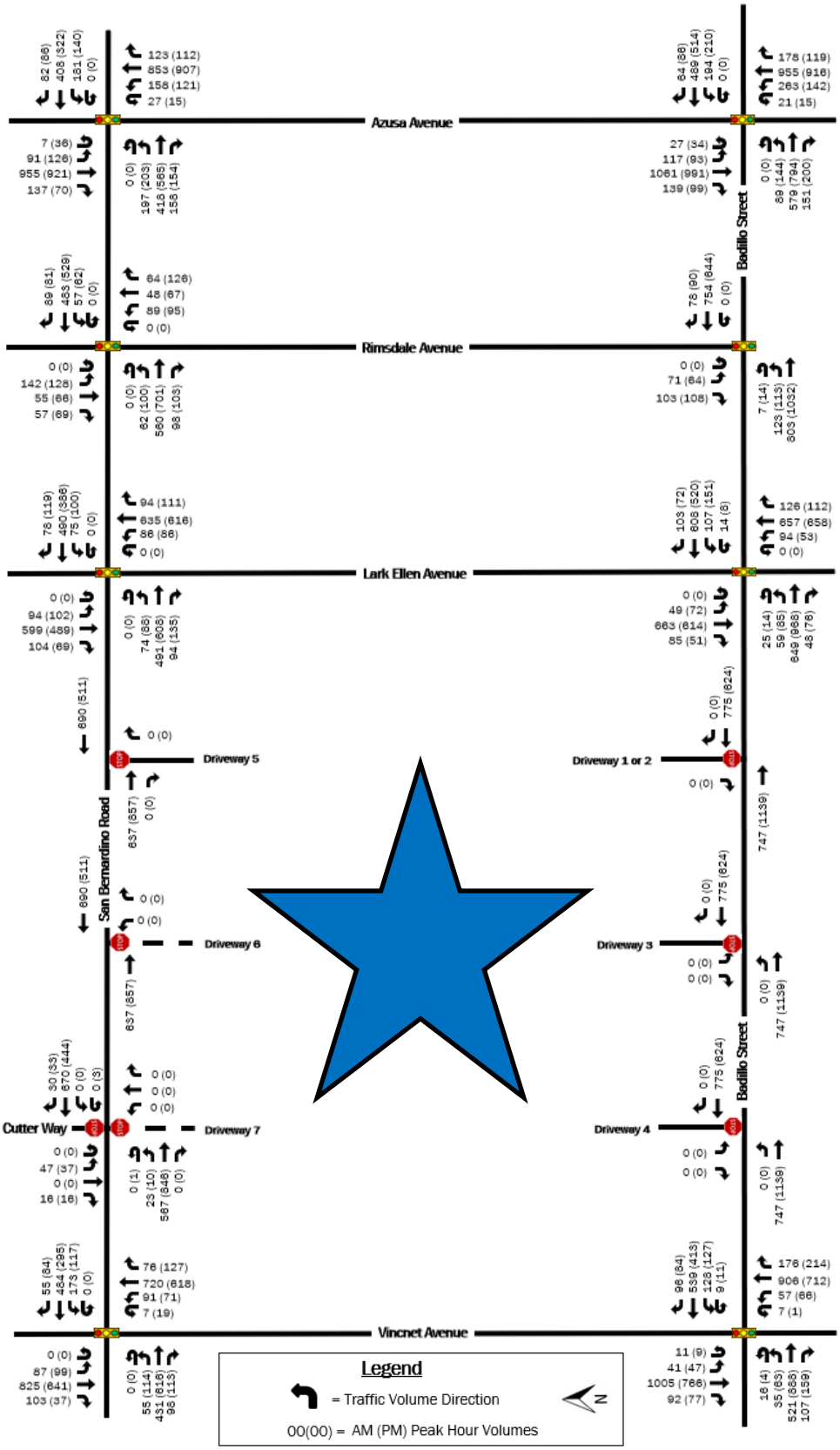
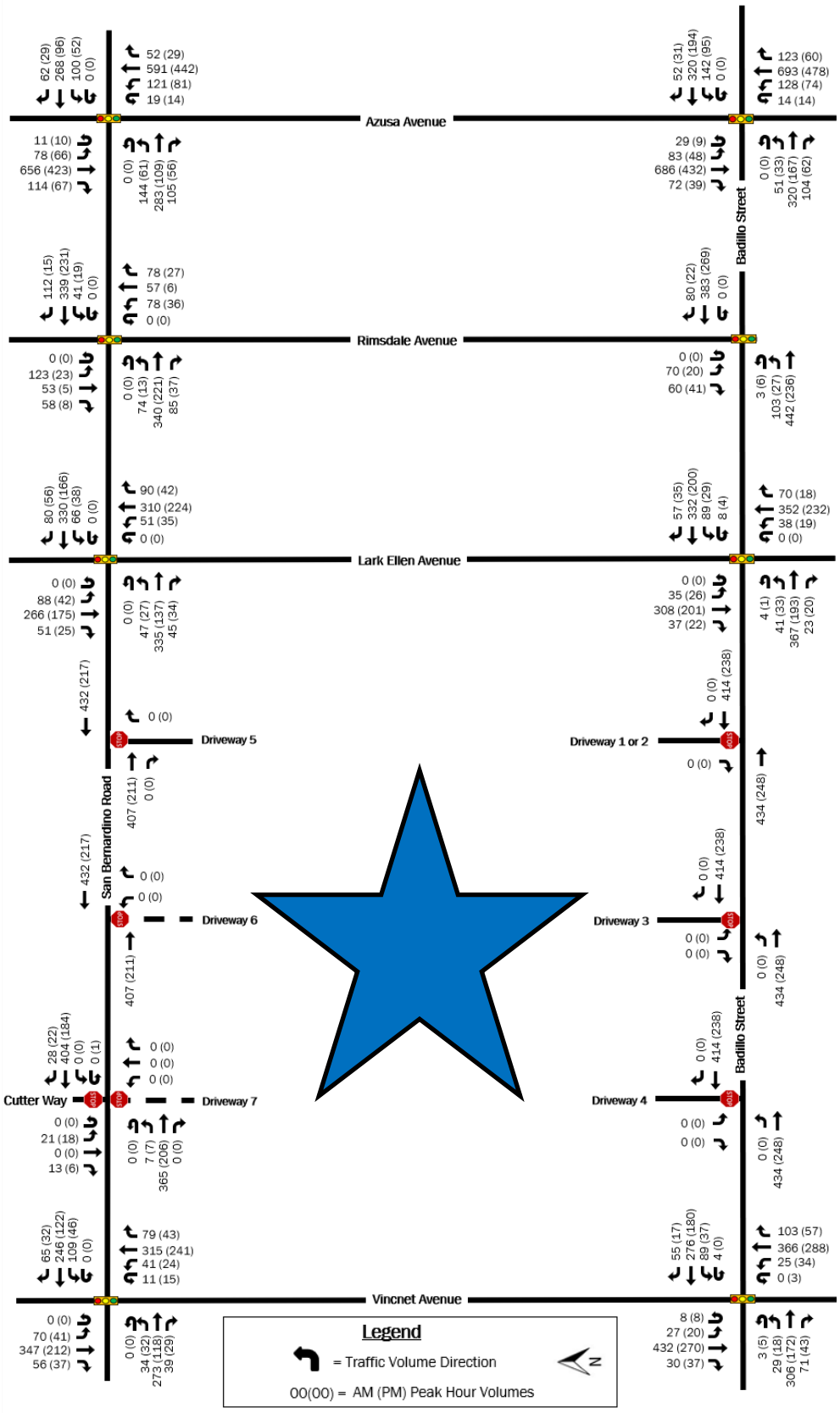


Figure 9: AM & PM Peak Hour of the Generator No Build (2021) Traffic Volumes



D. LOS Analysis

D.1. Trip Generation

The operations of this site are unique and do not match any land uses included in the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 10th Edition, 2017. The tenant provided trip generation data that reflects a more accurate estimate of the traffic to be generated by the delivery station. Table 2 summarizes the delivery station's anticipated trip generation characteristics by vehicle type or purpose for the peak hours of the adjacent street and peak hours of the site (or generator). Hourly summaries of trips by purpose and vehicle type, along with a comparison to trip rates from other sites in California are provided in Appendix C. Employee and van driver trips are based on 10% using transit or other ride sharing opportunities, walking, or biking to work. This is based on an analysis of available transit schedules and stop locations compared to employee and driver shifts, as well as area transit usage (pre-COVID-19). Further documentation of this assumption is also included in Appendix C. Note that flex drivers do not return to the site after deliveries are complete.

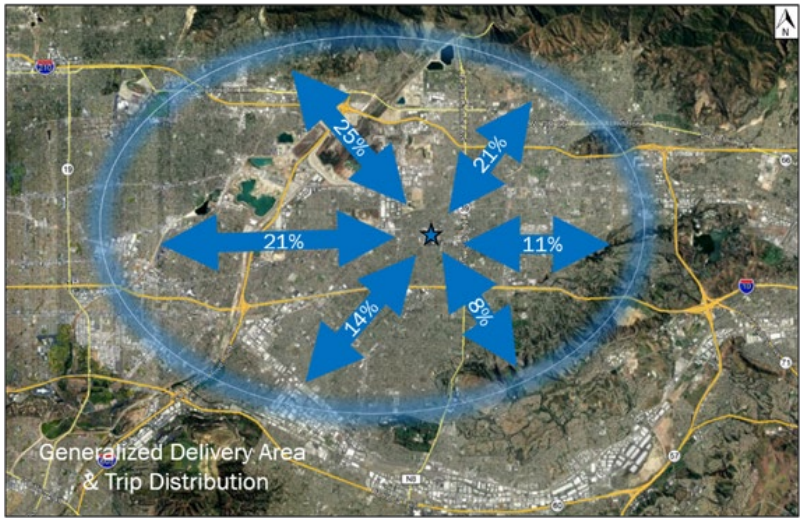
Table 2: Project Trip Generation

Time Period	Employees		Trucks		Drivers		Vans		Flex		Total
	In	Out	In	Out	In	Out	In	Out	In	Out	
AM Peak Hour (Adjacent Street)	0	0	1	1	0	0	0	0	0	0	2
PM Peak Hour (Adjacent Street)	0	0	1	0	0	0	0	0	45	18	63
AM Peak Hour (Generator)	0	0	0	1	73	0	0	108	0	0	182
PM Peak Hour (Generator)	0	0	1	1	0	80	81	0	0	0	163
Daily	129	129	14	14	127	127	142	142	45	45	914

Although the proposed delivery station will be replacing a church, that facility's specific hourly traffic generation characteristics cannot be confirmed at this time due to COVID-19 quarantines and stay at home orders. Thus, no attempt to credit any of the church's trips were made for the level of service analyses.

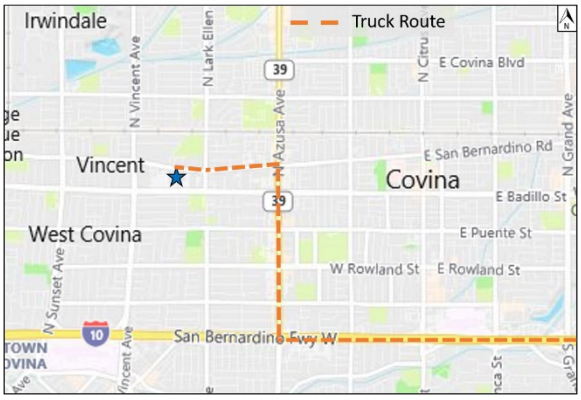
D.2. Trip Distribution and Assignment

Figure 10: Service Area



Trips associated with the site have distinct purposes: trucks delivering parcels from sort centers, employee and drivers' home-based work trips, and vans and flex drivers delivering parcels to consumers. All trucks will arrive from and depart to the east. Trip distribution for employees and drivers is assumed to be similar to other workers in the site's census tract. The site's proposed user has a network of delivery stations and expects this site will serve the generalized area identified in Figure 10. Coincidentally, the general distribution of deliveries is the same as workers employed in the area during the 2010 census.

Figure 11: Truck Routes



All line-haul trucks will approach the site from the east on I-10 using Exit 36 and Azusa Avenue to access San Bernardino Road (See Figure 11) and the site's westernmost driveway.

Trips are assigned to driveways based on vehicle type and trip purpose. Trip assignments approaching/departing the site are based on known routes (trucks) or the shortest, most reasonable routes to generalized origins/destinations (delivery vehicles, drivers, and employees). Trucks are assigned as shown in Figure 12. Employees (Associates) are all assigned to the westernmost driveway on San Bernardino Road as shown in Figure 13. Delivery drivers will use driveways 3 and 4 on Badillo Street to access the site when arriving and departing in their personal vehicles (see Figure 14). Delivery vehicles (vans and flex) will exit the facility via driveway 6 onto San Bernardino Road. They will enter the facility via driveway 5 on San Bernardino Road or any of the four driveways on Badillo Street, as shown in Figure 15. Delivery routes will avoid Lark Ellen Avenue when possible. While deliveries will be made along Lark Ellen Avenue, northeastern and southeastern routes are assumed to use Azusa Avenue for this study.

D.3. Traffic Volumes

The resulting site traffic is illustrated by vehicle type or purpose for the typical AM peak hour on Figure 16, the typical PM peak hour on Figure 17, the delivery station's AM peak hour on Figure 18,

and the delivery station's PM peak hour on Figure 19. The total Build (2021) traffic is illustrated on Figures 20 and 21 for the typical and site peak hours, respectively.

Traffic entering and exiting the westernmost driveway on San Bernardino Road is of particular interest. During normal operations no more than one truck is expected to enter the site during any hour. The same is true for exiting trucks. All employee (associate) traffic uses this driveway with 40% of that traffic turning left into and 60% turning left out of the driveway. Table 3 lists the left turn volumes at this driveway during those hours when employees are entering and exiting the site.

Table 3: Left Turning Site Traffic at Driveway 7

Hour Beginning	Inbound Lefts	Outbound Lefts
1:00 AM	29	0
5:00 AM	9	0
11:00 AM	2	0
Noon	0	42
1:00 PM	14	0
2:00 PM	0	11
6:00 PM	0	10
10:00 PM	0	14

D.4. Cumulative Development Projects

The City of West Covina as well as the Cities of Covina and Baldwin Park provided lists of land development projects that had previously received approval but were not yet fully occupied as well as development projects that were expected to be approved while this project was under consideration. Those lists are included in Appendix D. The locations of those developments are identified on Figure 22 by Map ID and summarized in Table 4. Most of these developments are unlikely to notably increase traffic at the study intersections. Those that can be reasonably assumed to add traffic to the study intersections are circled on Figure 22 and highlighted in bold text in Table 4. Traffic from two of these developments was taken directly from traffic impact studies produced during their approval processes. Traffic from the residential units at 529 Cutter Way was added as 2021 existing (or background) traffic. Traffic from the redevelopment of the Covina Bowl site at 1060 W. San Bernardino Road is included as cumulative development. Trip generation and distribution/assignment assumptions for the other land development projects assumed to contribute traffic to study intersections is also documented in Appendix D. Cumulative Traffic is illustrated in Figure 23 and Cumulative Build Traffic in Figure 24.

Figure 12. Truck Traffic Trip Assignment

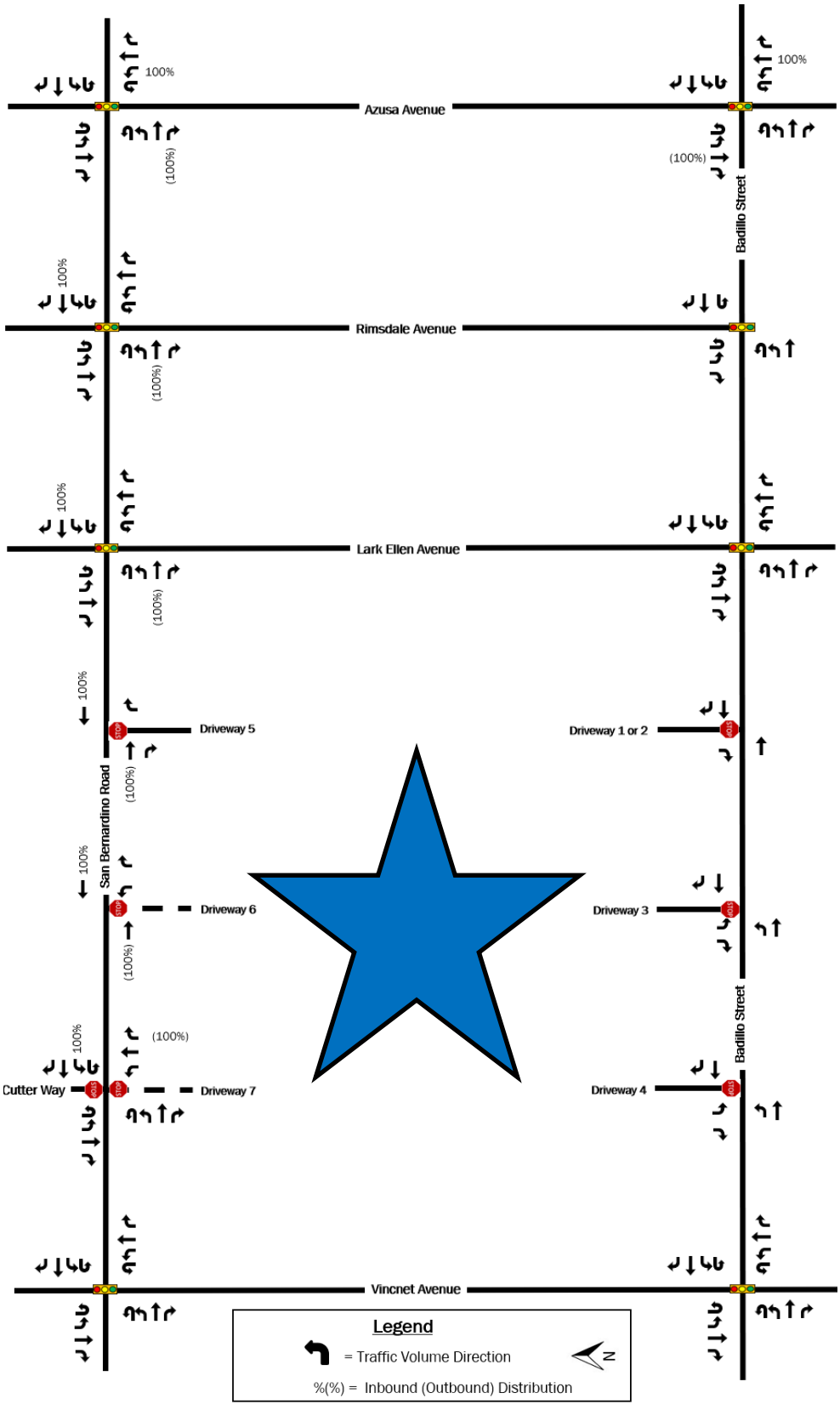


Figure 13. Employee Traffic Trip Assignment

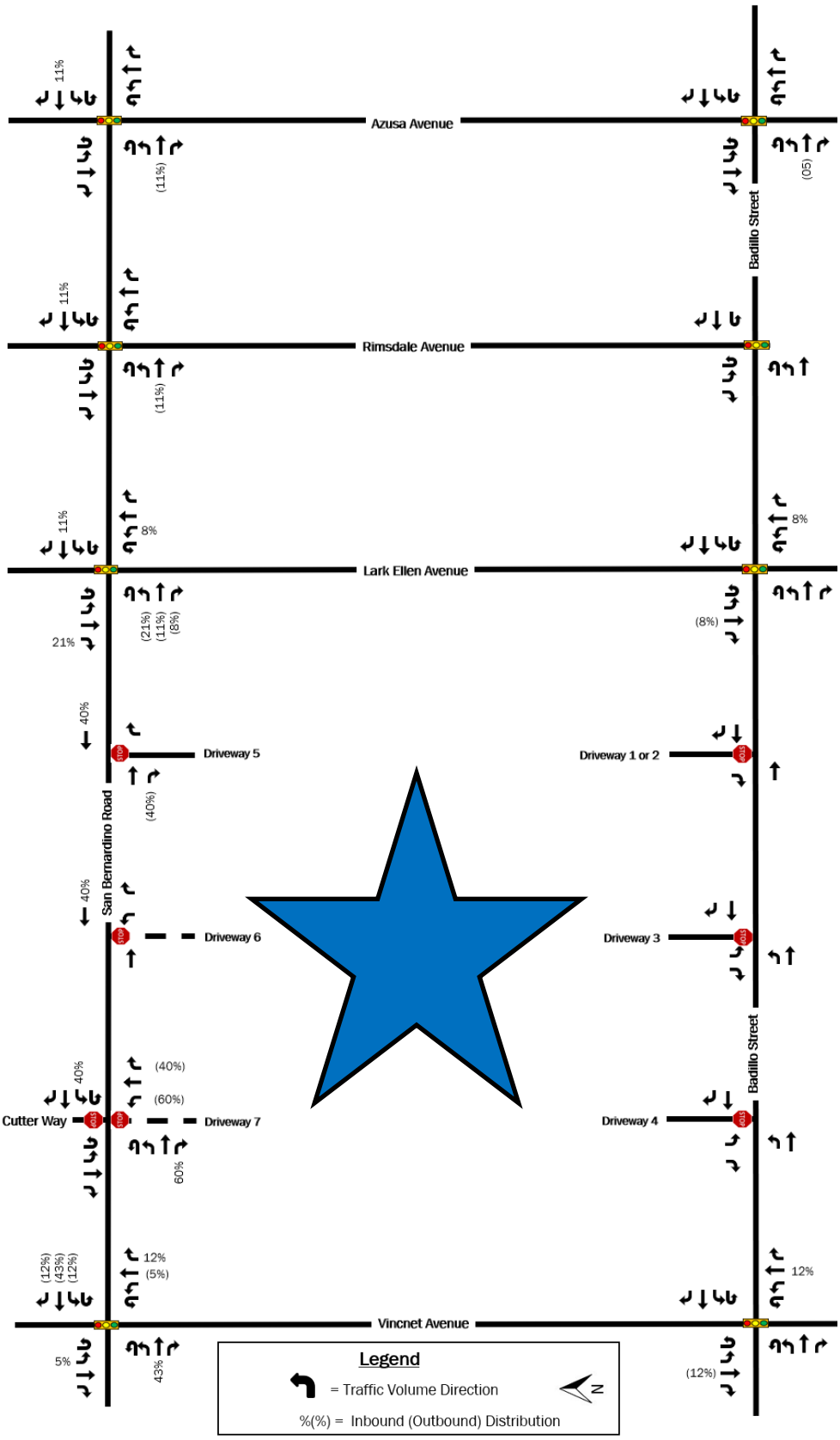


Figure 14: Van Driver Traffic Trip Assignment

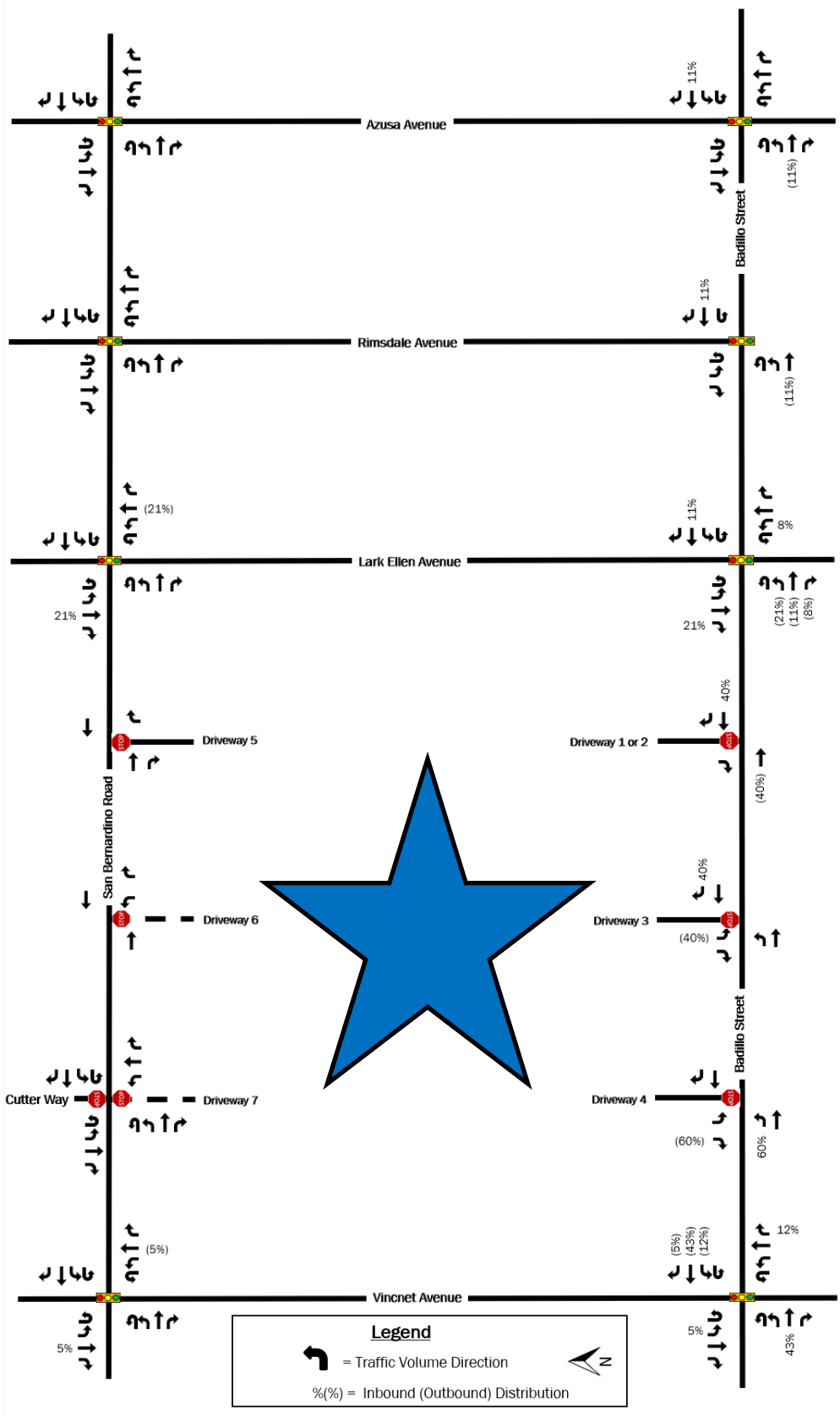


Figure 15: Delivery Vehicle Traffic Trip Assignment

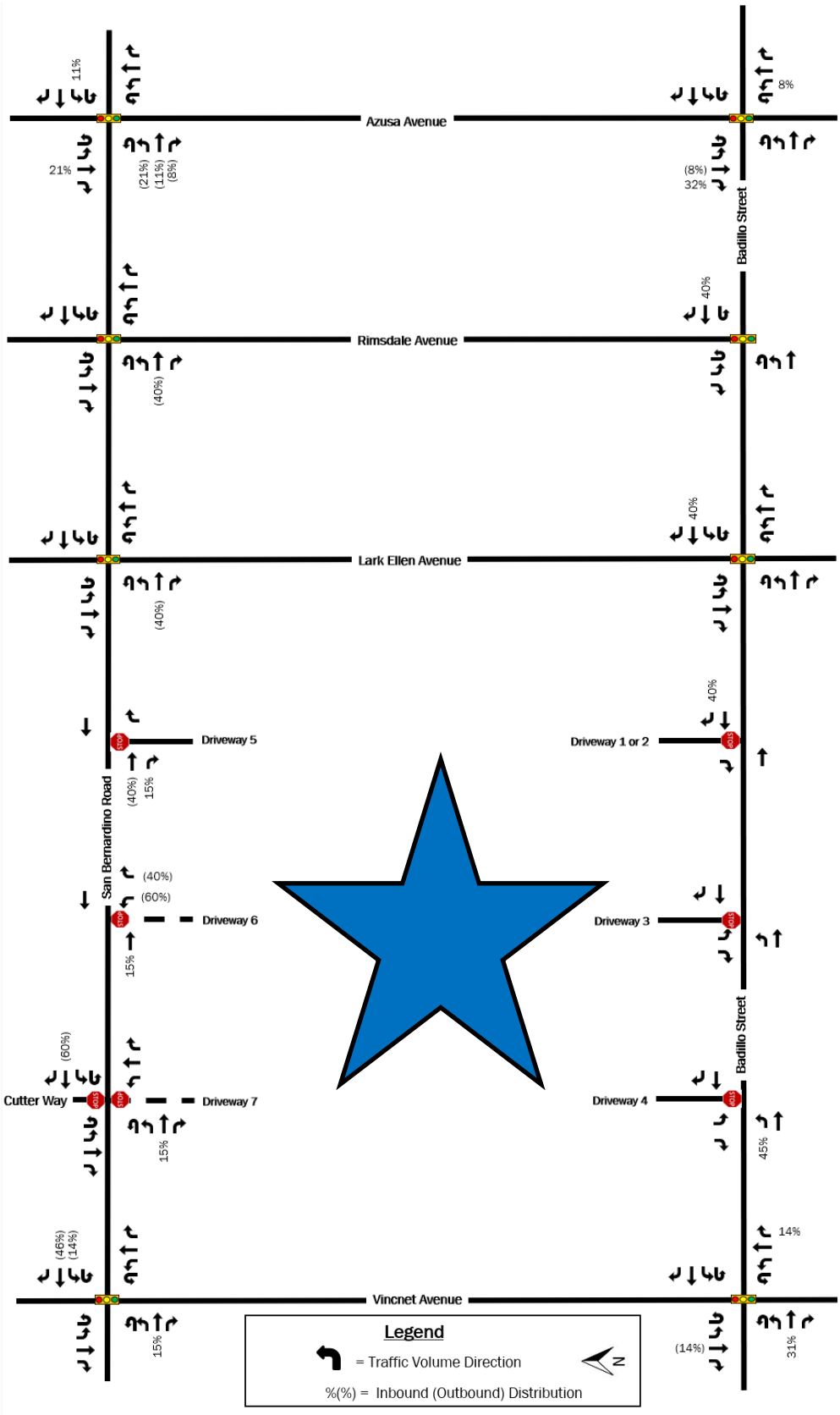


Figure 16: AM Peak Hour of the Adjacent Street Site Traffic Volumes

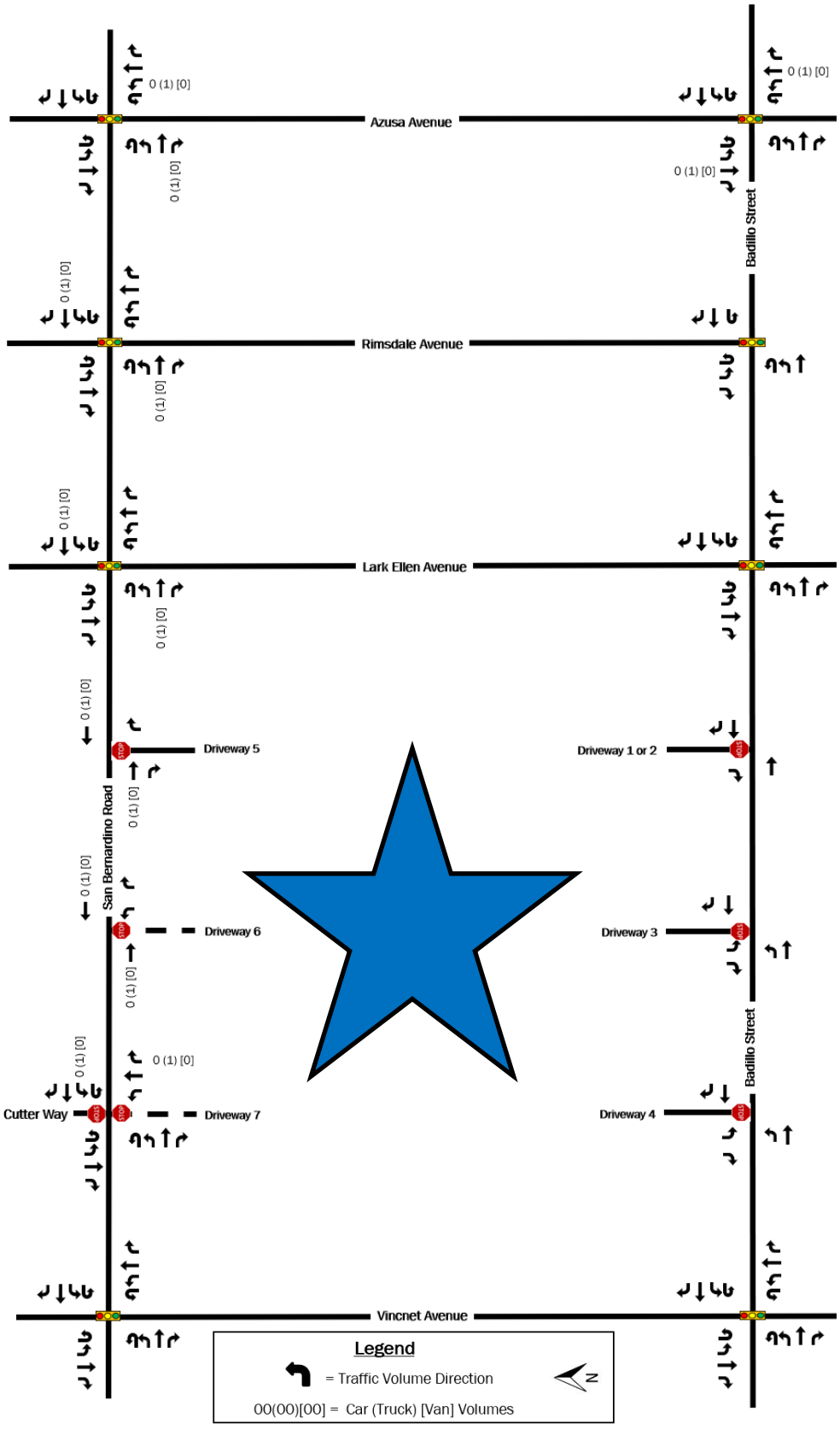


Figure 17: PM Peak Hour of the Adjacent Street Site Traffic Volumes

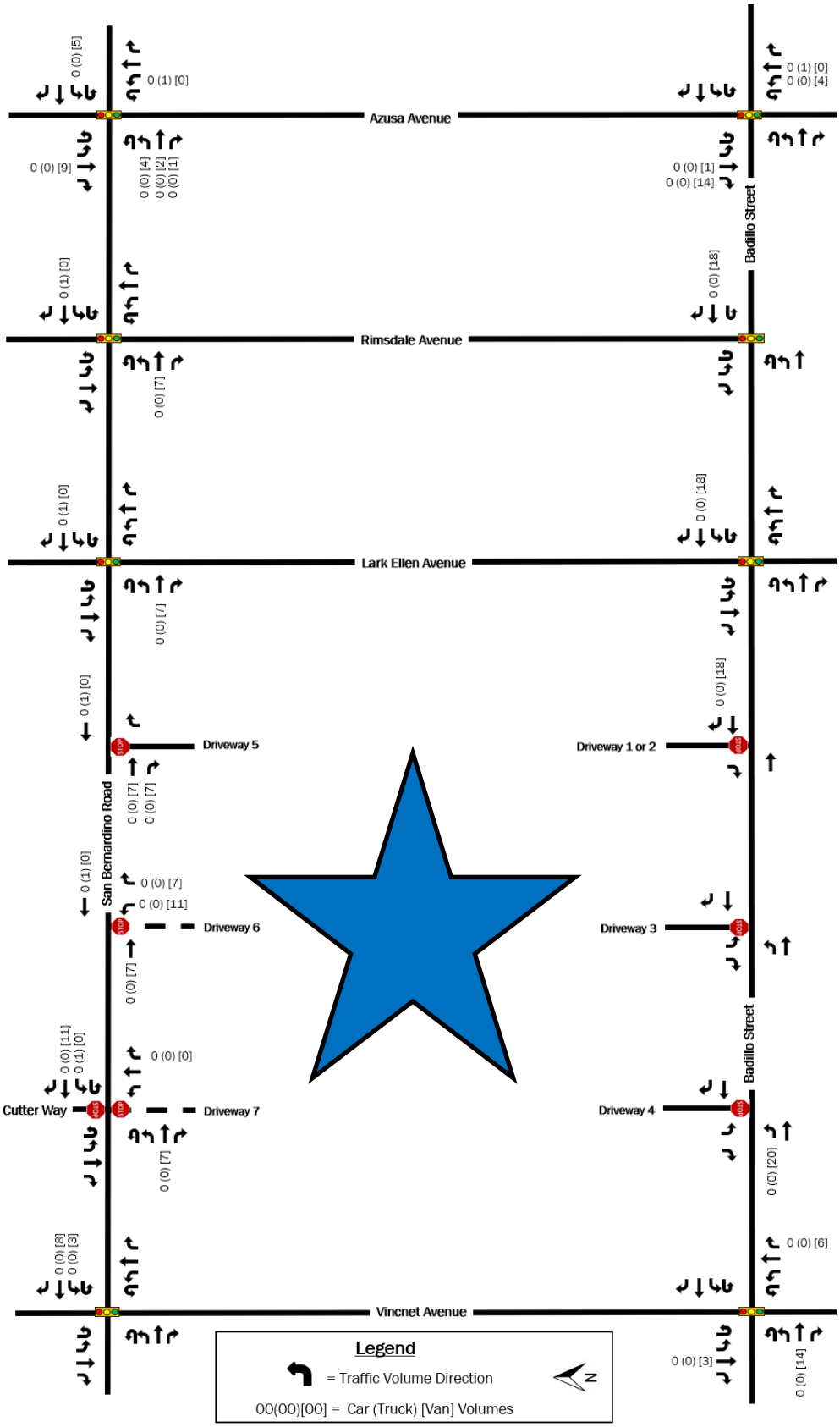


Figure 18: AM Peak Hour of the Generator Site Traffic Volumes

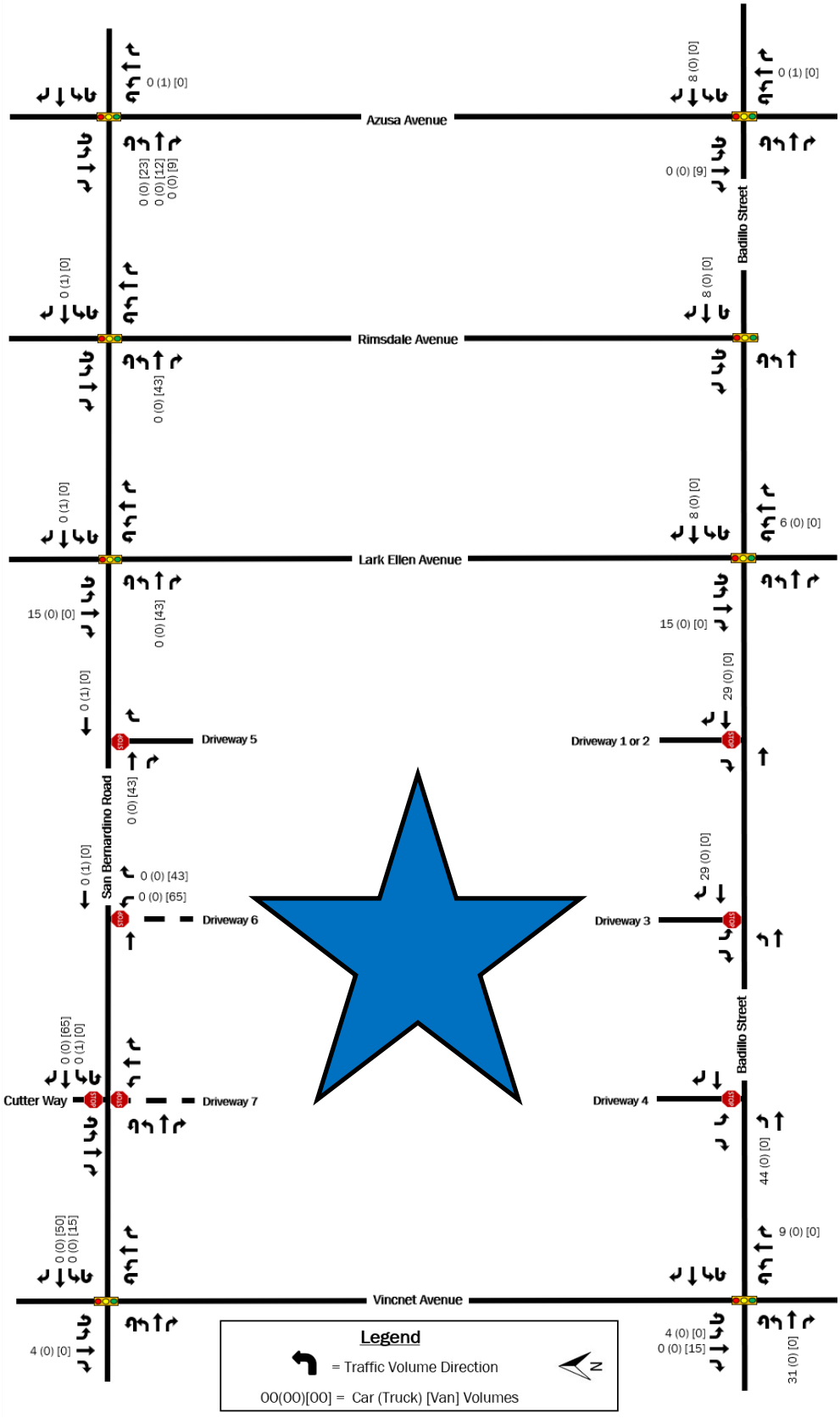


Figure 19: PM Peak Hour of the Generator Site Traffic Volumes

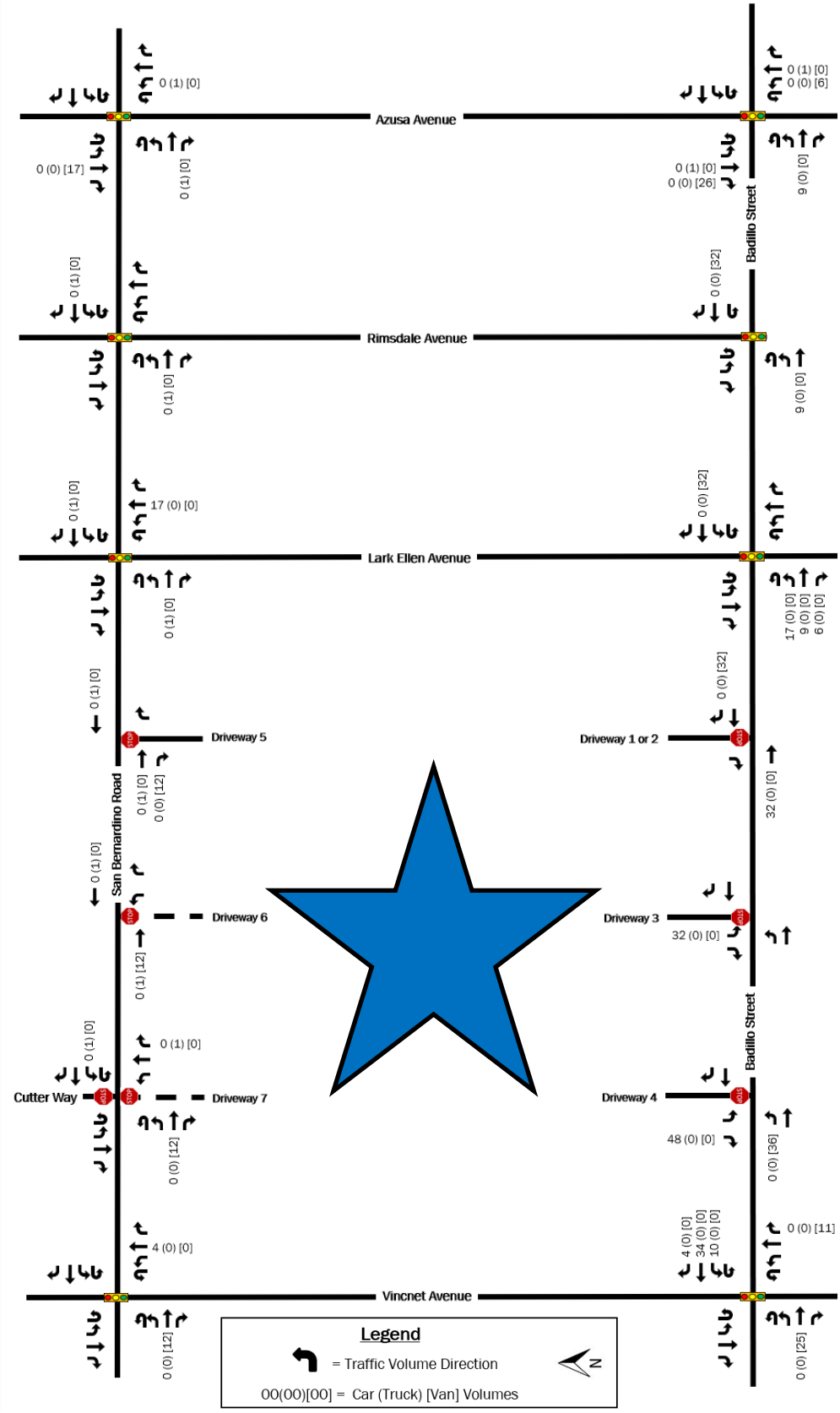


Figure 20: AM & PM Peak Hour of the Adjacent Street Build Traffic Volumes

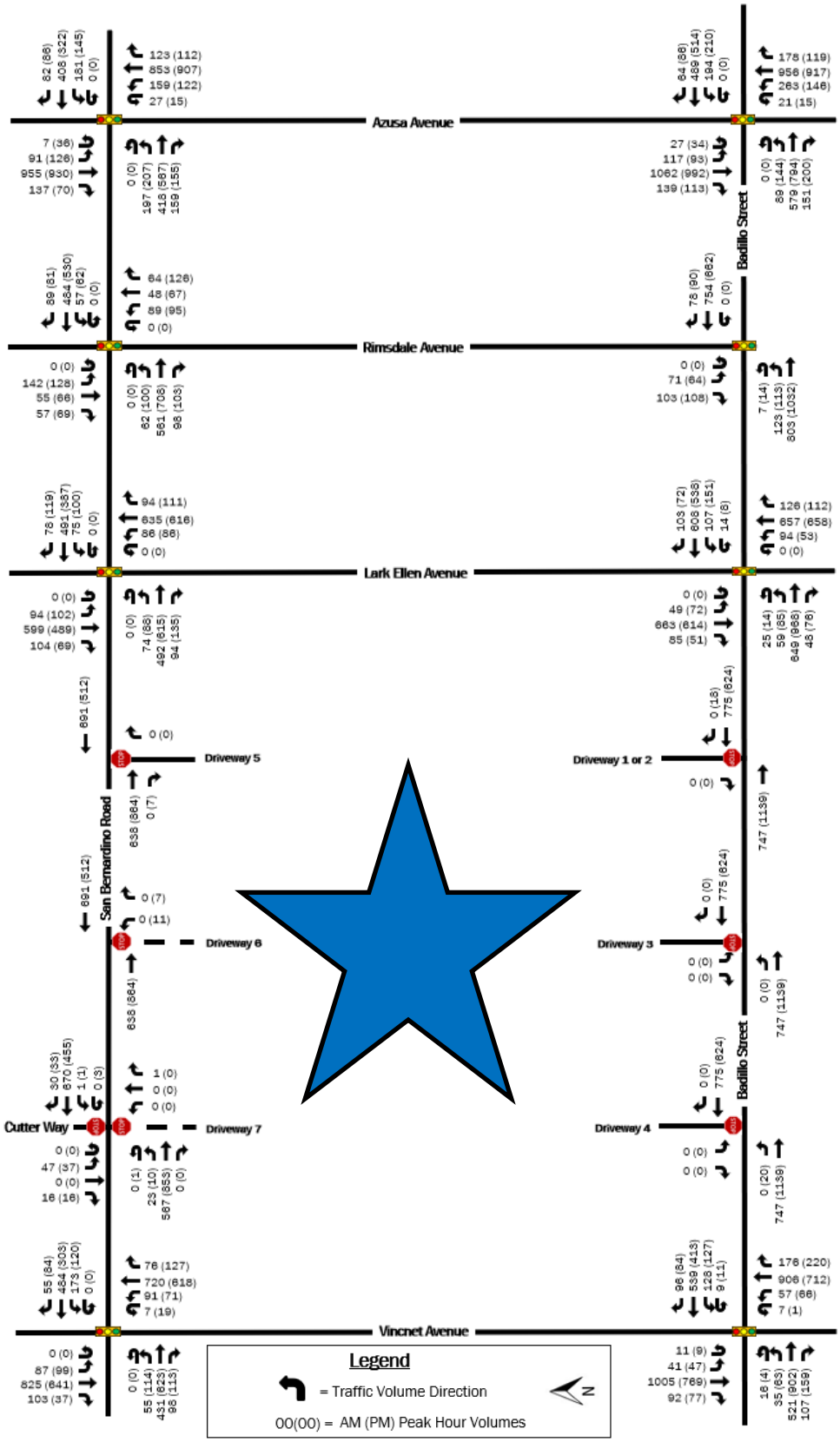


Figure 21: AM & PM Peak Hour of the Generator Build Traffic Volumes

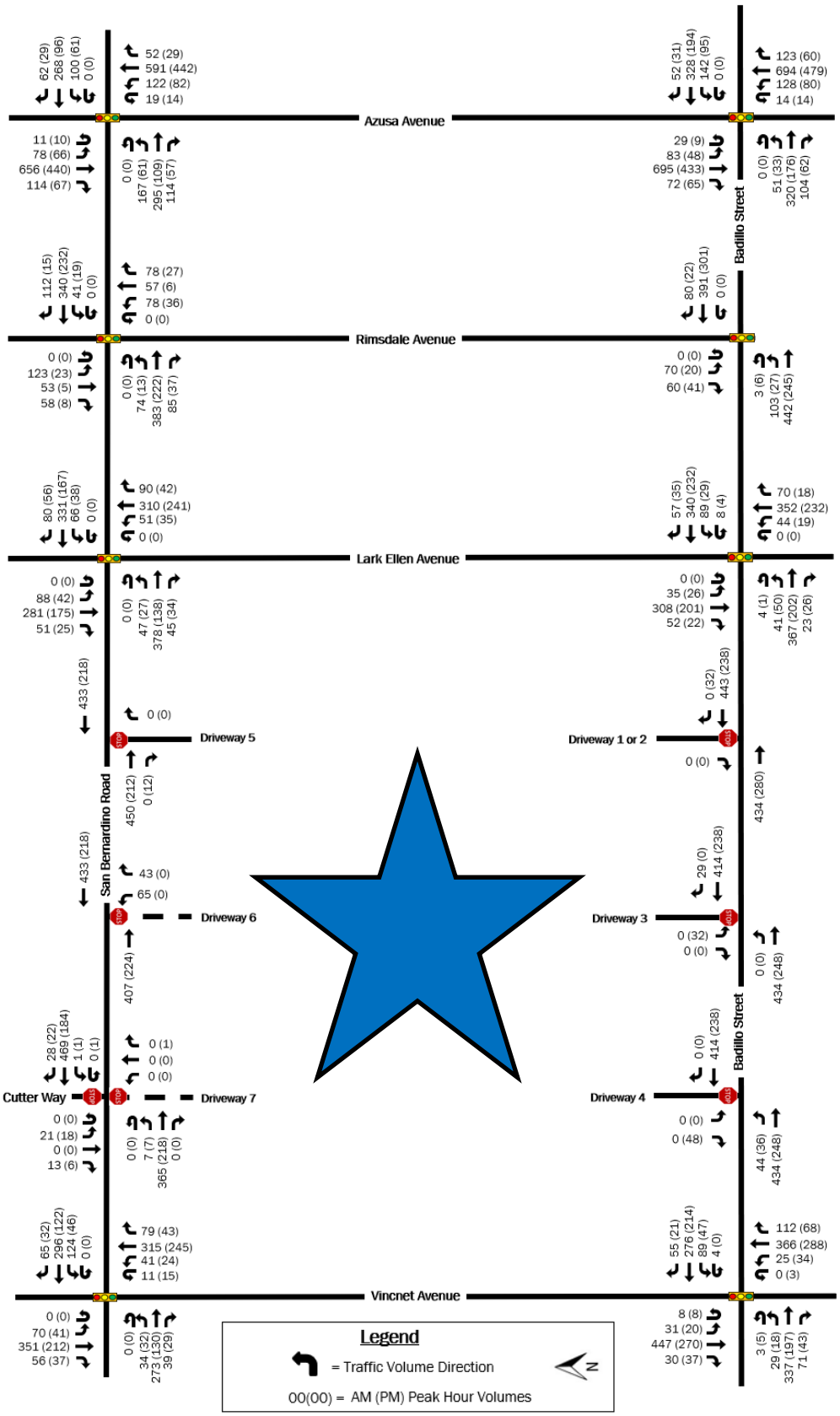


Figure 22: Cumulative Development Site Locations

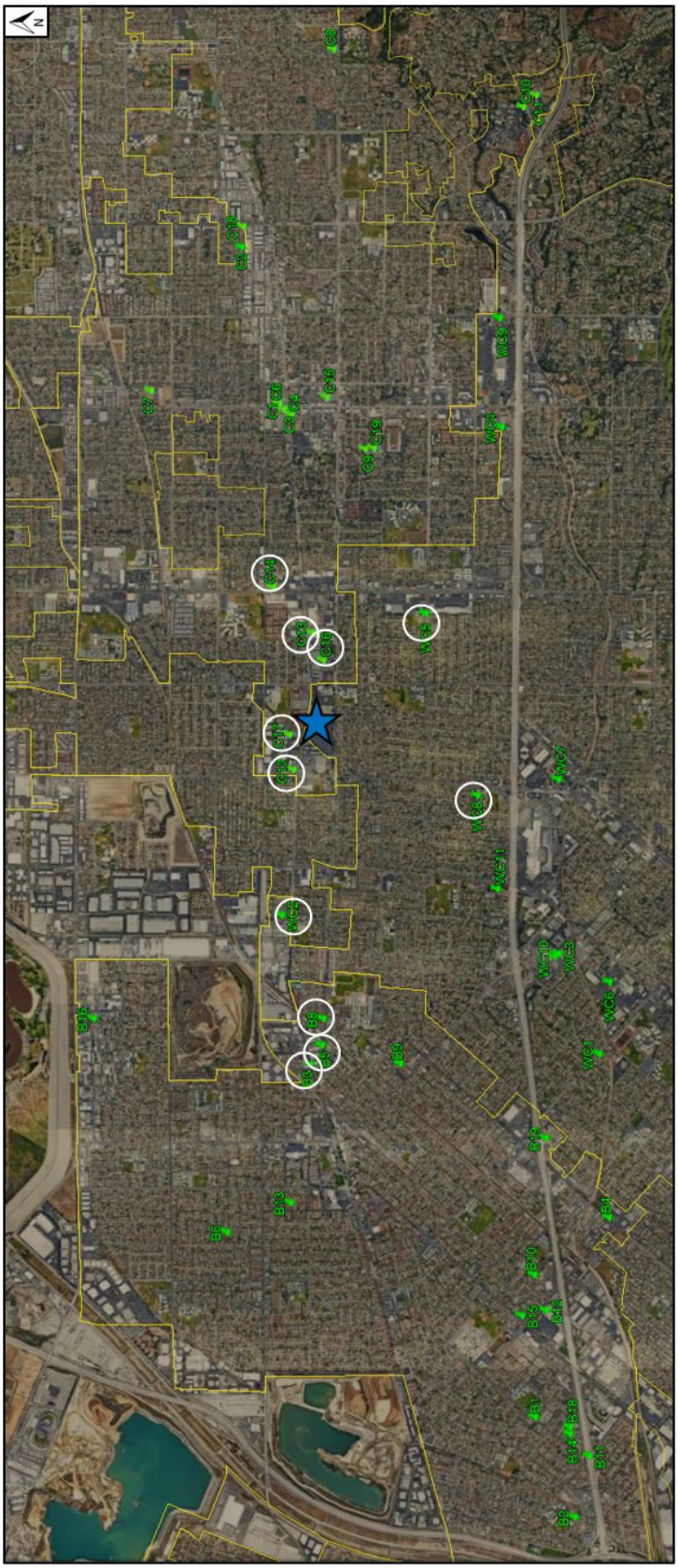


Table 4: Cumulative Development Projects

Map ID	Address	Development Type
WC1	1912 W. Merced Avenue	Assisted Living Facility
WC2	**1611/1623 San Bernardino Road**	**Industrial Condominiums**
WC3	1530 W. Cameron Avenue	Residential Townhomes
WC4	**2505/2539 E Garvey Avenue N**	**Shopping Center**
WC5	1650 E. Rowland Avenue	Multi-Family Residential
WC6	1115 S. Sunset Avenue	Medical Office Building, ICU/Emergency Dept Hospital Addition
WC7	Walnut Creek Pkwy. APN 8474-009-009	Multi-Family Residential
WC8	1024 W. Workman Avenue	Multi-Family Residential
WC9	147 N. Barranca Street	Fast-Food Restaurant with Drive-Thru
WC10	1600/1616 W. Cameron Avenue	Multifamily Residential
C1	San Bernardino Road @ Citrus Avenue	Multifamily Residential & Mixed Use
C2	777 Enda Place	Industrial
C3	401 N. Citrus Avenue	Office/Retail
C4	129-137 W. Orange Street	8 Condo Units
C5	155 E. San Bernardino Road	10 Condo Units & Small Retail
C6	N. Citrus and W. San Bernardino Rd	Multifamily Residential & Commercial
C7	1162 N. Citrus	Townhouse Units, Transit Center, Park Ride Facility, Retail, Event Center & Office
C8	1650 E. Old Badillo	Skilled Nursing & Memory-Care Facility
C9	276 W. Dexter	3 Condo Units
C10	E Holt and S Park View	Assisted Living/Memory Care Facility
C11	1154/1164 S Park View Dr	Medical Office Building
C12	**1680 W San Bernardino Rd**	**Rebuild Gas Station, New Convenience Store Plus 2 Auto Service Bays**
C13	**1060 W. San Bernardino Road**	**Townhomes, Office** (Covina Bowl Redevelopment)
C14	**578 N. Azusa Avenue**	**Small Low-Rise Hotel**
C15	135 E Badillo	Mixed-Use Development
C16	**1201 W. Badillo Street**	**Low Rise 28-Unit Apartment Building**
C17	***529 Cutter Way***	***50 Multifamily Units (11 Are Livework)***
C18	731 N. Grand Avenue	Gas Station, Convenience Store & Carwash
C19	342 S Fourth Avenue	Townhouses
BP1	3234 Frazier Street	Condominiums
BP2	12756 - 12770 Torch Street	Condominiums
BP3	**APN 8437-013-905**	**Condominiums**
BP4	1606 Puente Ave	Drive Through Car Wash & Convenience Store
BP5	**15000 Badillo Street**	**Condominiums**
BP6	3913 Stewart Avenue	Condominiums
BP7	4923-4929 Fortin Street, 15138 Nubia Street & APN 8413-013-025	Single Family Residential Subdivision
BP8	**15110-15120 Badillo Street**	**Condominiums**
BP9	14837-14839 Pacific Avenue	Single Family Residential
BP10	13853 Garvey Avenue	Gas Station A& Convenient Store
BP11	13018 Dalewood St	Single Family House
BP12	3100 Baldwin Park Blvd	Drive Thru Restaurant
BP13	4232 La Rica Avenue	condominiums
BP14	APN 8556-022-037, -038 & -039	commercial warehouse
BP15	13619 Francisquito Avenue	Express Carwash
BP16	5060 Gayurst Avenue	Small Warehouse
BP17	13057 - 13065 Garvey Avenue	Commercial Industrial Warehouse
BP18	13127 Garvey Avenue	Jack in The Box, Starbucks
BP19	14614-14622 Dalewood Street	Office, Retail & Medical Office Building

Figure 23: AM & PM Peak Hour of the Adjacent Street Cumulative Development Traffic Volumes

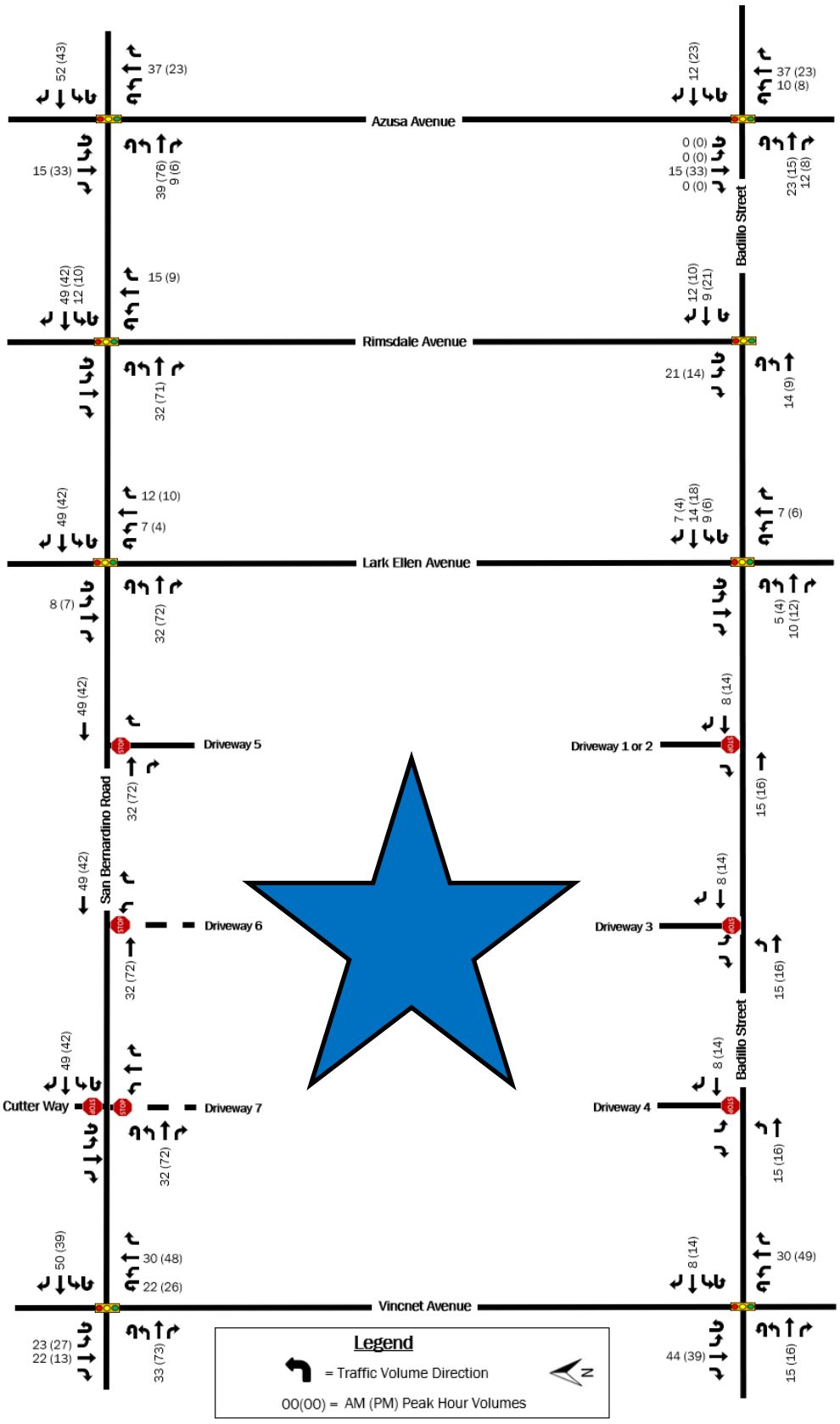
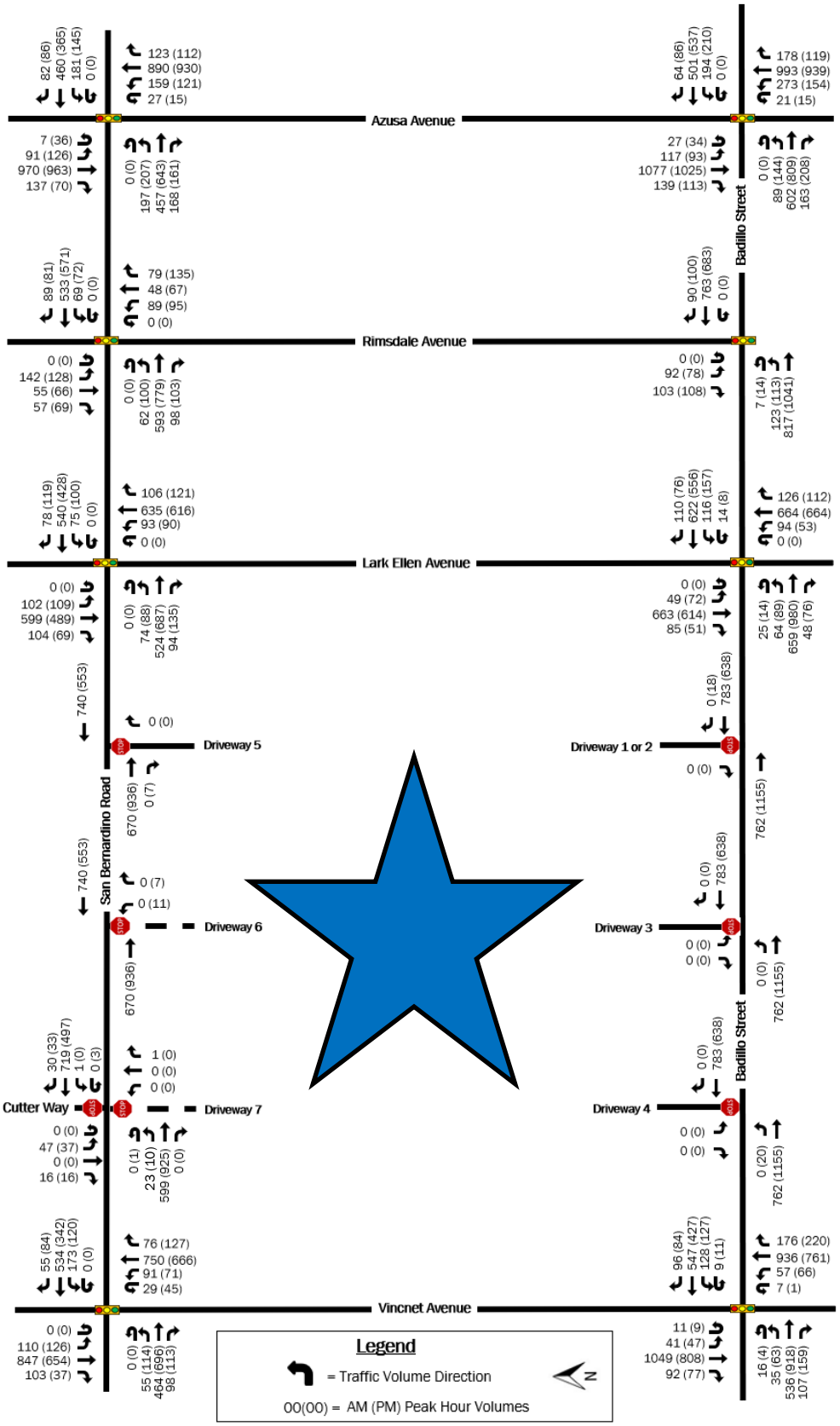


Figure 24: AM & PM Peak Hour of the Adjacent Street Cumulative Build Traffic Volumes



D.5. Traffic Signal Warrant Analysis

The Cutter Way/Driveway 7 and Driveway 6 intersections with San Bernardino Road were evaluated to determine if traffic signals would be warranted with the addition of site traffic. The Cutter Way/Driveway 7 intersection was evaluated using traffic for both the peak hours of the adjacent street and the peak hours of the generator. No signal warrant volume thresholds were met during any of these four hours. Site traffic does not exit Driveway 6 during the typical AM peak hour or during the PM peak hour of the site, so only the AM peak hour of the site and the PM peak hour of the adjacent street were evaluated. Again, no signal warrant volume thresholds were met during either of these hours. Driveway 5 has been assumed to operate with only right turns and is expected to see minimal use. It is also unlikely to meet any signal warrant volume thresholds. The signal warrant analysis is documented in Appendix E.

Nevertheless, a traffic signal with pedestrian phases will be installed at the intersection of San Bernardino Road, Cutter Way, and Driveway 7 as part of the project to provide safer pedestrian connections along and across San Bernardino Road. This will reduce the spacing of signalized crossings along San Bernardino Road from a half to a quarter mile.

D.6. Traffic Analysis Results

The signalized intersection analyses are provided in Appendix F and the result are summarized in Table 5(a, b & c). All signalized intersections, with the exception of Badillo Street at Azusa Avenue are expected to operate at LOS D or better under all conditions in 2021. Badillo Street at Azusa Avenue is the only intersection expected to operate at a worse level (LOS E). It is expected to operate at LOS E during the AM peak hour of the adjacent street under all conditions and in the PM peak hour of the adjacent street under the Cumulative No Build and Cumulative Build conditions with only a 0.001 increase in the V/C ratio during the AM Peak, well below the significance threshold of 0.02.

The unsignalized intersection analyses are provided in Appendix G and the results are summarized in Table 6. Since no traffic generated by existing church activities is included as existing traffic, there are no level-of service results for site driveways other than at Cutter Way for the No Build condition. There are also no results for the other driveways during some or all the peak hours due either to the absence of site traffic during that time period or the presence of only inbound traffic for which the analysis methodology assumes that traffic does not experience delays by default (right turns from the major street). Nevertheless, no traffic movements that are required to yield the right-of-way at site's driveways are expected to experience delays beyond the LOS D range. Left turns from the driveways on Badillo Street will operate at LOS B or better during the hour when vans drivers are leaving the site at the end of their shifts, indicating more than sufficient gaps are available for those movements. No other traffic should be exiting the site via those driveways. Traffic entering those driveways via left turns will also operate at LOS A when traffic is arriving.

Table 5a: Signalized Intersections Capacity Analysis (Adjacent Street Peak)

	No Build				Build				LOS Increase		Significant
	AM		PM		AM		PM				
	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	AM	PM	
San Bernardino Rd @ Vincent Ave	0.725	C	0.696	B	0.725	C	0.700	C	0.000	0.004	No
San Bernardino Rd @ Lark Ellen Ave	0.616	B	0.686	B	0.617	B	0.688	B	0.001	0.002	No
San Bernardino Rd @ Rimsdale Ave	0.556	A	0.650	B	0.556	A	0.652	B	0.000	0.002	No
San Bernardino Rd @ Azusa Ave	0.850	D	0.832	D	0.851	D	0.836	D	0.001	0.004	No
Badillo St @ Vincent Ave	0.703	C	0.745	C	0.703	C	0.750	C	0.000	0.005	No
Badillo St @ Lark Ellen Ave	0.671	B	0.753	C	0.671	B	0.753	C	0.000	0.000	No
Badillo St @ Rimsdale Ave	0.526	A	0.530	A	0.526	A	0.530	A	0.000	0.000	No
Badillo St @ Azusa Ave	0.911	E	0.887	D	0.912	E	0.890	D	0.001	0.003	No

No Build is without the subject Delivery Station, Build includes the Delivery Station

Table 6b: Signalized Intersections Capacity Analysis (Generator Peak)

	No Build				Build				LOS Increase		Significant
	AM		PM		AM		PM				
	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	AM	PM	
San Bernardino Rd @ Vincent Ave	0.433	A	0.289	A	0.442	A	0.294	A	0.009	0.005	No
San Bernardino Rd @ Lark Ellen Ave	0.440	A	0.296	A	0.453	A	0.301	A	0.013	0.005	No
San Bernardino Rd @ Rimsdale Ave	0.497	A	0.250	A	0.498	A	0.250	A	0.001	0.000	No
San Bernardino Rd @ Azusa Ave	0.627	B	0.397	A	0.636	B	0.408	A	0.009	0.011	No
Badillo St @ Vincent Ave	0.401	A	0.284	A	0.419	A	0.298	A	0.018	0.014	No
Badillo St @ Lark Ellen Ave	0.407	A	0.273	A	0.415	A	0.293	A	0.008	0.020	No
Badillo St @ Rimsdale Ave	0.367	A	0.243	A	0.37	A	0.253	A	0.003	0.010	No
Badillo St @ Azusa Ave	0.614	B	0.415	A	0.614	B	0.418	A	0.000	0.003	No

No Build is without the subject Delivery Station, Build includes the Delivery Station

Table 7c: Signalized Intersections Capacity Analysis (Cumulative Conditions)

	No Build				Build				LOS Increase		Significant
	AM		PM		AM		PM				
	V/C	LOS	V/C	LOS	V/C	LOS	V/C	LOS	AM	PM	
San Bernardino Rd @ Vincent Ave	0.756	C	0.750	C	0.756	C	0.754	C	0.000	0.004	No
San Bernardino Rd @ Lark Ellen Ave	0.635	B	0.717	C	0.635	B	0.719	C	0.000	0.002	No
San Bernardino Rd @ Rimsdale Ave	0.583	A	0.684	B	0.583	A	0.686	B	0.000	0.002	No
San Bernardino Rd @ Azusa Ave	0.868	D	0.861	D	0.868	D	0.869	D	0.000	0.008	No
Badillo St @ Vincent Ave	0.721	C	0.762	C	0.721	C	0.768	C	0.000	0.006	No
Badillo St @ Lark Ellen Ave	0.680	B	0.762	C	0.68	B	0.762	C	0.000	0.000	No
Badillo St @ Rimsdale Ave	0.542	A	0.542	A	0.542	A	0.542	A	0.000	0.000	No
Badillo St @ Azusa Ave	0.929	E	0.910	E	0.93	E	0.91	E	0.001	0.000	No

No Build is without the subject Delivery Station, Build includes the Delivery Station
Build includes both the Cumulative projects in Table 4 and the proposed Delivery Station

Table 6: Unsignalized Intersections Capacity Analysis

Intersection		No Build								Build								Cumulative Build			
		Adjacent Street Peak				Generator Peak				Adjacent Street Peak				Generator Peak				Adjacent Street Peak			
		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM	
		Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS
San Bernardino Rd @ Cutter Way	EBL	9.2	A	8.9	A	8.3	A	7.7	A	9.2	A	8.7	A	8.5	A	7.7	A	9.4	A	8.8	A
	WBL	-	-	14.3	B	-	-	8.5	A	8.7	A	14.4	B	8.1	A	8.1	A	8.8	A	15.5	C
	NB	-	-	-	-	-	-	-	-	10.2	B	-	-	-	-	8.9	A	10.3	B	-	-
	SB	27.0	D	22.1	C	13.7	B	10.7	B	27.1	D	22.6	C	14.8	B	10.8	B	30.7	D	25.8	D
San Bernardino Rd @ Driveway 6[2]	NB	-	-	-	-	-	-	-	-	-	-	20.7	C	14.4	B	-	-	-	-	23.2	C
San Bernardino Rd @ Driveway 5[3]	NBR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Badillo St @ Driveway 1 or 2[3,4]	SBR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Badillo St @ Driveway 3[3,5]	EBL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.4	B	-	-	-	-
Badillo St @ Driveway 4[6]	EBL	-	-	-	-	-	-	-	-	-	-	9.0	A	8.4	A	7.8	A	-	-	9.0	A
	SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2	A	-	-	-	-

[1]In seconds/vehicle
[2]No traffic exits during the AM Peak of the Street Traffic or the PM Peak of the Generator
[3]No traffic enters or exits during the AM Peak of the Street Traffic or AM Peak of the Generator
[4]PM traffic enters by turning right

D.7. Queuing Analysis

Queuing estimates for stop controlled and yielding movements at unsignalized intersections are included in the HCM analyses. The results for each of the hours analyzed under the build conditions are summarized in Table 7. At no time would storage be required for more than one stopped vehicle waiting to enter or exit any of the site's driveways. Queue results from HCM signalized analyses also confirms that queues on San Bernardino Road and Cutter Way would not exceed one vehicle in any turn lane (or exiting Cutter Way or Driveway 7) with the relocation and signalization of Driveway 7 and the addition of site traffic.

Table 9: Queuing Analysis

Intersection and Lanes		Street Peak Hours (vehicles)		Generator Peak Hours (vehicles)		Queue (Feet[1])
		AM	PM	10:00 AM	8:00 PM	
San Bernardino Rd @ Cutter Way	EBL	<1.0	<1.0	<1.0	<1.0	25
	WBL	<1.0	<1.0	<1.0	<1.0	25[2]
	NB	<1.0	-	-	<1.0	25
	SB	<1.0	<1.0	<1.0	<1.0	25
Badillo St @ Driveway 1 or 2	SB	-	-	-	-	-
Badillo St @ Driveway 3	EBL	-	-	-	-	-
	SB	-	-	-	0.2	25
Badillo St @ Driveway 4	EBL	-	0.1	0.1	0.1	25
	SB	-	-	-	0.2	25
San Bernardino Rd @ Driveway 5	NBR	-	-	-	-	-
San Bernardino Rd @ Driveway 6	NB	-	0.2	0.9	-	25

[1]An average of 25 feet per vehicle is assumed, rounded up to the next whole 25-foot increment.
[2]A minimum of 100 feet will be provided.

E. Peak Season Operations

The actual number of packages delivered from the station varies some throughout the year and by day of week. The trip generation characteristics used in this study are considered typical. The delivery station is expected to experience a seasonal increase in package deliveries between Thanksgiving and the end of the year, coinciding with the typical peak shopping season. While processing and delivering the increased number of packages requires more employees, delivery vehicles and drivers, those employees and delivery routes would still operate in shifts designed to minimize commuting peak hours as much as possible. For example, a second employee shift of possibly 100 – 125 associates may be utilized handle the overflow of packages, beginning their sorting shift in the evening and finishing in the early morning. An additional dispatch shift may also be added with perhaps 100 to 125 vans departing in the morning and returning in the evening but staggered a bit from the typical delivery route shifts. Depending on the need, additional package handling and delivery vehicles will be brought in to supplement the normal delivery process. Some increase in peak hour site traffic can be expected during both the typical peak hours and the site's peak hours. However, most of the increased traffic will be spread throughout the day. For instance, vans will be loaded at rates similar to typical operations, but due to the increase in the number of packages, that process will require more time and instead of all vans departing the site over a two-hour period they will depart over a four-hour period. The same is true for vans returning to the site, although delivery routes may take longer to complete, and their return may span even more hours. All delivery vehicles would still be expected to return to the station before 10:00 PM. There could be up to as twice the typical number of line-haul trucks during this season. Yet, the increase in line-haul truck traffic would be expected to occur after 6:00 PM but before 10:00 PM.

Given the results of the level-of-service and queuing analyses, the additional traffic is not expected to exceed the storage distances provided by left-turn lanes into the site or to spill out onto the adjacent roadways.

F. Site Access, Parking, and Circulation

Site access will be provided through one signalized and six unsignalized intersections, with two of the existing driveways to San Bernardino Road relocated slightly to better serve the site and provide safe access to and from that street. No changes are proposed for the other driveways. Providing adequate sight distances (see Figure 25 and Appendix H) will require the elimination of most on-street parking along the site's frontages and the removal of any landscaping 3.5 feet or taller within these sight lines behind the sidewalks or in the median along Badillo Street. None of the site driveways require signalization to operate at acceptable levels of service even during peak hours, though Driveway 7 will be signalized to improve pedestrian access. Existing and proposed left-turn lanes into the site are more than sufficient to store vehicles waiting on gaps in traffic during peak periods. Three site driveways will have full access to San Bernardino Road and Badillo Street. Entering and exiting movements at these driveways can be accommodated by existing lanes, yet a westbound left-turn lane into Driveway 7 (see Appendix H for striping plan) will be provided as part of the project. Other than aligning Driveway 7 with Cutter Way, the current spacing between driveways and major side streets will be maintained. None of the driveways provide access to other sites.

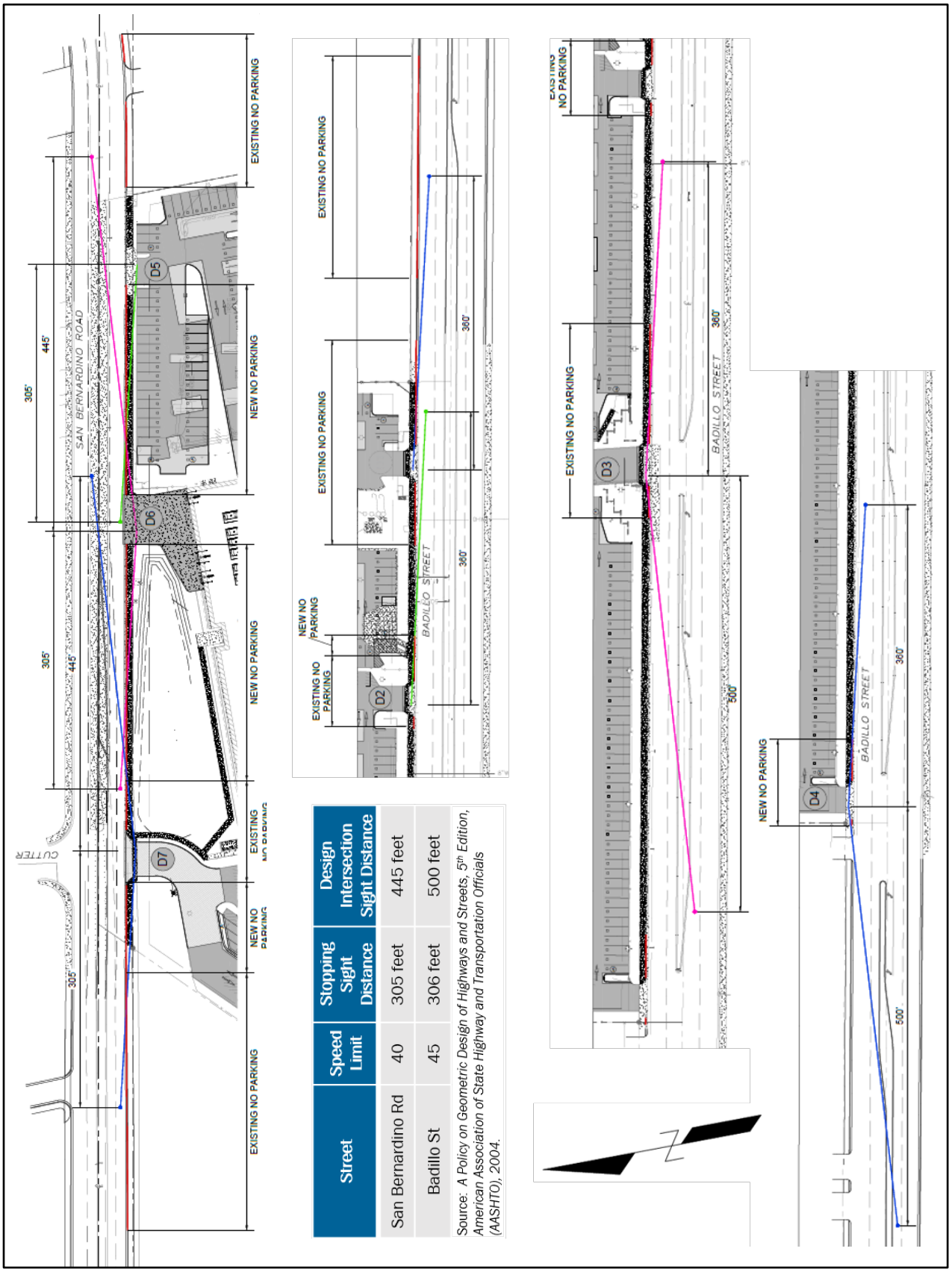
The sidewalk along San Bernardino Road will be replaced and a connection between this sidewalk and the front door provided. Crosswalks and pedestrian phases will be included in the design of the new traffic signal at the Cutter Way intersection on San Bernardino Road.

Parking for up to 811 passenger cars and vans will be available on-site. Overnight fleet vehicle and drivers' personal vehicle parking, totaling 629 spaces, is available south and east of the building, accessible from Driveways 1 through 5. All delivery vehicles will exit via driveway 6. Employees (Associates) will enter and exit opposite Cutter Way and have access to 185 passenger car spaces to the west of the building. Line-haul trucks will also enter and exit opposite Cutter Way to access 8 loading docks along the west side of the building. A site plan is provided in Figure 4.

Table 10: Parking Requirements & Provisions

Required Parking Spaces		Provided Parking Spaces	
Type	Number	Type	Number
Office: 9,478 SF @ 1 Space/300 SF	32	9' x 18' (Associates)	185
Industrial: 159,840 SF @ 1 Space/500 SF	320	11' x 27' (Van Fleet)	629
Total	352	Total	811
8 Accessible (State Accessibility Code)		8 Accessible of which 1 is van sized	

Figure 25: Sight Distance Details



Street	Speed Limit	Stopping Sight Distance	Design Intersection Sight Distance
San Bernardino Rd	40	305 feet	445 feet
Badillo St	45	306 feet	500 feet

Source: A Policy on Geometric Design of Highways and Streets, 5th Edition, American Association of State Highway and Transportation Officials (AASHTO), 2004.

G. Active Transportation and Public Transit Analysis

The delivery station is consistent with adopted policies, plans, and programs to provide infrastructure for active transportation and public transit facilities. It would not conflict with existing or proposed facilities supporting these travel modes. Specifically, the West Covina Active Transportation Plan proposes the addition of bike lanes along Badillo Street. Conversion of the site to the proposed delivery station does not require any changes to Badillo Street that would prevent the installation of these bike lanes. The delivery station does not require any on-street parking along its frontage, freeing up pavement adjacent to the north curb for striping as a bike lane. In addition, while the Plan does not call for any pedestrian improvements along either Badillo Street or San Bernardino Road, the sidewalk along the site's frontage on San Bernardino Road will be replaced as part of the site's conversion to a delivery station.

The project will also provide signalized crosswalks across San Bernardino Road reducing the spacing of such crossing from a half to a quarter mile.

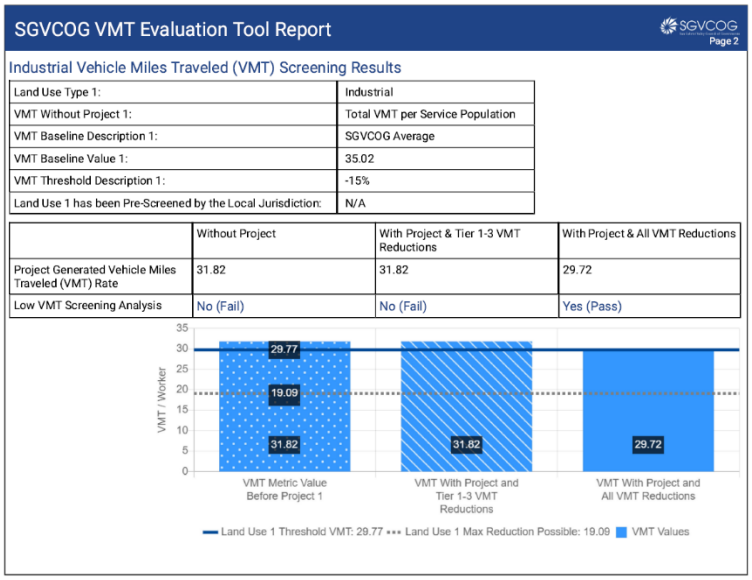
Foothills Transit Route 190 provides fixed-route bus service with stops on San Bernardino Road at Vincent Avenue and Lark Ellen Avenue. The route's schedule would accommodate all site commuters except the overnight employee shift.

H. Vehicle Miles Traveled (VMT) Analysis

The proposed delivery station in West Covina would repurpose an existing 177,440 square foot building currently occupied by Faith Church. Typical weekday trip volumes for the church are unavailable due to COVID-19 precautions and closures, so it is not possible to compare the difference between the existing and anticipated traffic volumes for the site.

H.1. SGVCOG VMT Evaluation

The City of West Covina is included in the San Gabriel Valley Council of Governments' (SGVCOG) travel demand model and is included in SGVCOG's Vehicle Miles Traveled Evaluation Tool. The City has adopted a 15% below baseline VMT per Service Population for all land uses. That baseline is 35.02 and the threshold is 29.77. The evaluation tool indicates the site would have a VMT/ Service Population of 31.82 without the project. (See Appendix I.)



SGVCOG VMT Evaluation Tool Report

SGVCOG Page 2

Industrial Vehicle Miles Traveled (VMT) Screening Results

Land Use Type 1:	Industrial
VMT Without Project 1:	Total VMT per Service Population
VMT Baseline Description 1:	SGVCOG Average
VMT Baseline Value 1:	35.02
VMT Threshold Description 1:	-15%
Land Use 1 has been Pre-Screened by the Local Jurisdiction:	N/A

	Without Project	With Project & Tier 1-3 VMT Reductions	With Project & All VMT Reductions
Project Generated Vehicle Miles Traveled (VMT) Rate	31.82	31.82	29.72
Low VMT Screening Analysis	No (Fail)	No (Fail)	Yes (Pass)

The proposed tenant offers all employees the option of setting aside up to $270/month of their before tax pay to be used to subsidize alternative transportation expenses. The tenant also offers preferential parking for car/vanpools close to the building entrance with the number of available spaces varying by demand. In addition, as normal practice the tenant provides kiosks/bulletin boards where transit and ridesharing options are posted, provides a ride-matching platform such as Waze, and assigns an employee transportation coordinator to encourage the use of alternative transportation options. Application of these measures qualify as TP11 Alternative Transportation Benefits and are expected to reduce the VMT per service population to 29.72, below the significance threshold.

Pre-tax benefits are offered through Edenred Commuter Benefits Solutions. Information about these benefits is provided to new employees during their orientation and is documented in the employee handbook. These benefits are applicable to:

- Transit Expenses
- Parking Expenses for Park & Ride Lots/Transit Stations
- Vanpool and Qualified Ridesharing (such as Uberpool & Lyft Shared) Expenses

H.2. Other Regional VMT Reductions

It is noteworthy that tenant's delivery stations are located within the company's larger delivery area to consolidate deliveries in smaller geographic areas. The tenant delivers packages to zones much like the U.S. Postal Service except that the routes the vans take vary by day and are optimized for the most efficient movement. It is possible to estimate the VMT for delivery vehicles by finding the distance from the site to the furthest point within the delivery zone and multiplying by the number of vehicles bound for those zones. The furthest point within the zone is assume to account for circuitous travel as packages are dropped off throughout a route. (Note, not every van will travel to the furthest point within a zone).

All customers for the proposed delivery station are already being served by other delivery stations. The existing VMT for deliveries servicing existing customers is 2,686 miles per day. Most of these delivery trips are within 2 to 7 miles of the proposed delivery station. The future total two-way VMT for delivery vans is 2,056 miles per day. The existing private carrier VMT is 426 miles per day. The future total VMT for the private carrier operations is 326 miles per day. There will be 730 fewer regional delivery VMT per day.

Table 11: Delivery Vehicle Miles Traveled

Trip Type	Daily Trips	VMT from Current Delivery Stations	VMT from Proposed Delivery Station	Difference
Delivery Vans	284	2,686	2,056	-630
Private Carrier[1]	45	426	326	-100
Total	329	3,112	2,382	-730

I. Conclusion and Recommendations

The site, located at 1211 E Badillo Street/1200 E San Bernardino Road, and occupied by Faith Church is proposed for conversion to a parcel delivery station for an e-commerce company. Analysis results indicate that the existing transportation network can adequately accommodate increases in traffic associated with the proposed delivery station.

I.1. Key Findings

Most study intersections, including site driveways, are expected to operate at LOS D or better under all conditions in 2021. The only exception is the intersection of Badillo Street at Azusa Avenue. It is expected to operate at LOS E during the AM peak hour of the adjacent street under all conditions and in the PM peak hour of the adjacent street under the Cumulative No Build and Cumulative Build conditions with only a .001 increase in the V/C ratio during the AM Peak, well below the significance threshold of 0.02.

The Build conditions do not increase volume/capacity ratios or delays enough to change the LOS at any intersections.

With at least 15% of the tenant's employees eligible for Alternative Transportation Benefits, the proposed delivery station will have a less than significant VMT impact.

I.2. Mitigation Measures

A portion of San Bernardino Road will be restriped to provide a left-turn lane into the site at the westernmost driveway across from Cutter Way.

APPENDIX

Appendix A – Traffic Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: Vincent Ave & San Bernardino Rd
City: West Covina
Control: Signalized

Project ID: 21-020029-001
Date: 2/2/2021

Total

NS/EW Streets:	Vincent Ave				Vincent Ave				San Bernardino Rd				San Bernardino Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	12	63	11	2	2	70	7	0	6	28	10	0	15	36	7	0	269
7:15 AM	10	88	9	1	5	92	11	0	8	39	12	0	15	44	8	0	342
7:30 AM	9	76	7	0	18	98	8	0	2	44	11	0	18	62	4	0	357
7:45 AM	12	86	10	1	11	88	13	0	8	53	13	0	26	58	5	0	384
8:00 AM	9	65	7	1	4	83	13	0	6	52	7	0	15	47	7	0	316
8:15 AM	10	78	15	0	7	85	9	0	9	43	11	0	17	42	3	0	329
8:30 AM	12	63	10	1	9	90	13	0	8	45	10	0	13	38	9	0	321
8:45 AM	10	61	12	3	10	70	8	0	5	59	11	0	15	34	10	0	308
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	84	580	81	9	66	676	82	0	52	363	85	0	134	361	53	0	2626
APPROACH %'s :	11.14%	76.92%	10.74%	1.19%	8.01%	82.04%	9.95%	0.00%	10.40%	72.60%	17.00%	0.00%	24.45%	65.88%	9.67%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	40	315	33	3	38	361	45	0	24	188	43	0	74	211	24	0	1399
PEAK HR FACTOR :	0.833	0.895	0.825	0.750	0.528	0.921	0.865	0.000	0.750	0.887	0.827	0.000	0.712	0.851	0.750	0.000	0.911
	0.897				0.895				0.861				0.868				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	9	61	13	2	8	64	8	0	9	53	8	0	14	43	15	0	307
10:15 AM	9	61	13	1	15	73	11	0	8	53	5	0	23	54	12	0	338
10:30 AM	4	62	18	1	8	54	13	0	9	53	12	0	26	49	20	0	329
10:45 AM	10	64	17	5	24	82	12	0	1	55	6	0	20	46	4	0	346
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	32	248	61	9	55	273	44	0	27	214	31	0	83	192	51	0	1320
APPROACH %'s :	9.14%	70.86%	17.43%	2.57%	14.78%	73.39%	11.83%	0.00%	9.93%	78.68%	11.40%	0.00%	25.46%	58.90%	15.64%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	32	248	61	9	55	273	44	0	27	214	31	0	83	192	51	0	1320
PEAK HR FACTOR :	0.800	0.969	0.847	0.450	0.573	0.832	0.846	0.000	0.750	0.973	0.646	0.000	0.798	0.889	0.638	0.000	0.954
	0.911				0.788				0.919				0.858				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	98	25	1	22	104	13	0	28	132	29	0	23	57	9	0	549
4:15 PM	9	98	22	2	24	125	17	0	19	117	26	0	23	64	11	0	557
4:30 PM	12	127	20	5	22	108	11	0	22	105	28	0	20	51	18	0	549
4:45 PM	17	120	25	2	22	117	9	0	19	147	24	0	31	57	14	0	604
5:00 PM	12	123	19	3	17	118	8	0	20	89	18	0	21	66	20	0	534
5:15 PM	14	119	23	7	18	146	8	0	25	119	29	0	13	53	19	0	593
5:30 PM	13	124	30	3	21	123	4	0	26	128	18	0	25	55	13	0	583
5:45 PM	11	121	25	2	18	101	13	0	26	79	25	0	24	59	13	0	517
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	96	930	189	25	164	942	83	0	185	916	197	0	180	462	117	0	4486
APPROACH %'s :	7.74%	75.00%	15.24%	2.02%	13.79%	79.23%	6.98%	0.00%	14.25%	70.57%	15.18%	0.00%	23.72%	60.87%	15.42%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	56	486	97	15	78	504	29	0	90	483	89	0	90	231	66	0	2314
PEAK HR FACTOR :	0.824	0.980	0.808	0.536	0.886	0.863	0.806	0.000	0.865	0.821	0.767	0.000	0.726	0.875	0.825	0.000	0.958
	0.962				0.888				0.871				0.904				

NS/EW Streets:	Vincent Ave				Vincent Ave				San Bernardino Rd				San Bernardino Rd				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	6	43	5	3	7	51	7	0	10	20	8	0	11	41	3	0	215
8:15 PM	7	52	12	4	8	34	7	0	5	31	6	0	8	26	5	0	205
8:30 PM	0	49	5	4	8	51	11	0	4	19	3	0	7	19	12	0	192
8:45 PM	6	46	9	1	9	31	4	0	6	21	6	0	8	9	5	0	161
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	19	190	31	12	32	167	29	0	25	91	23	0	34	95	25	0	773
APPROACH %'s :	7.54%	75.40%	12.30%	4.76%	14.04%	73.25%	12.72%	0.00%	17.99%	65.47%	16.55%	0.00%	22.08%	61.69%	16.23%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	19	190	31	12	32	167	29	0	25	91	23	0	34	95	25	0	773
PEAK HR FACTOR :	0.679	0.913	0.646	0.750	0.889	0.819	0.659	0.000	0.625	0.734	0.719	0.000	0.773	0.579	0.521	0.000	0.899
	0.840				0.814				0.827				0.700				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Cutter Way & San Bernardino Rd
City: West Covina
Control: 1-Way Stop(SB)

Project ID: 21-020029-002
Date: 2/2/2021

Total

NS/EW Streets:	Cutter Way				Cutter Way				San Bernardino Rd				San Bernardino Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	2	0	1	0	1	29	0	0	0	58	3	0	94
7:15 AM	0	0	0	0	3	0	2	0	2	41	0	0	0	64	4	0	116
7:30 AM	0	0	0	0	3	0	2	0	1	60	0	0	0	64	6	0	136
7:45 AM	0	0	0	0	2	0	2	0	1	66	0	0	0	94	2	0	167
8:00 AM	0	0	0	0	4	0	3	0	0	63	0	0	0	65	5	0	140
8:15 AM	0	0	0	0	1	0	1	0	0	54	0	0	0	69	5	0	130
8:30 AM	0	0	0	0	10	0	0	0	0	65	0	0	0	65	0	0	140
8:45 AM	0	0	0	0	2	0	4	0	4	73	0	0	0	61	6	0	150
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	27	0	15	0	9	451	0	0	0	540	31	0	1073
APPROACH %'s :					64.29%	0.00%	35.71%	0.00%	1.96%	98.04%	0.00%	0.00%	0.00%	94.57%	5.43%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	17	0	6	0	1	248	0	0	0	293	12	0	577
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.425	0.000	0.500	0.000	0.250	0.939	0.000	0.000	0.000	0.779	0.600	0.000	0.864
					0.575				0.929				0.794				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	0	0	0	0	3	0	3	0	4	62	0	0	0	65	6	0	143
10:15 AM	0	0	0	0	3	0	3	0	0	66	0	0	0	80	4	0	156
10:30 AM	0	0	0	0	2	0	1	0	1	82	0	0	0	87	3	0	176
10:45 AM	0	0	0	0	2	0	2	0	0	77	0	0	0	86	7	0	174
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	10	0	9	0	5	287	0	0	0	318	20	0	649
APPROACH %'s :					52.63%	0.00%	47.37%	0.00%	1.71%	98.29%	0.00%	0.00%	0.00%	94.08%	5.92%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	10	0	9	0	5	287	0	0	0	318	20	0	649
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.833	0.000	0.750	0.000	0.313	0.875	0.000	0.000	0.000	0.914	0.714	0.000	0.922
					0.792				0.880				0.909				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	10	0	2	0	0	171	0	0	0	85	9	2	279
4:15 PM	0	0	0	0	8	0	3	0	3	159	0	0	0	90	2	0	265
4:30 PM	0	0	0	0	4	0	4	0	2	159	0	0	0	92	6	0	267
4:45 PM	0	0	0	0	3	0	3	0	1	177	0	1	0	82	3	0	270
5:00 PM	0	0	0	0	8	0	1	0	1	128	0	0	0	97	8	0	243
5:15 PM	0	0	0	0	4	0	0	0	1	168	0	0	0	87	3	0	263
5:30 PM	0	0	0	0	6	0	0	0	3	171	0	0	0	90	6	0	276
5:45 PM	0	0	0	0	4	0	2	0	2	142	0	0	0	95	4	1	250
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	47	0	15	0	13	1275	0	1	0	718	41	3	2113
APPROACH %'s :					75.81%	0.00%	24.19%	0.00%	1.01%	98.91%	0.00%	0.08%	0.00%	94.23%	5.38%	0.39%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	25	0	12	0	6	666	0	1	0	349	20	2	1081
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.625	0.000	0.750	0.000	0.500	0.941	0.000	0.250	0.000	0.948	0.556	0.250	0.969
					0.771				0.940				0.946				

NS/EW Streets:	Cutter Way				Cutter Way				San Bernardino Rd				San Bernardino Rd				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	0	0	0	0	1	0	0	0	2	52	0	0	0	47	2	0	104
8:15 PM	0	0	0	0	4	0	1	0	0	38	0	0	0	41	2	1	87
8:30 PM	0	0	0	0	3	0	1	0	0	36	0	0	0	30	5	0	75
8:45 PM	0	0	0	0	2	0	2	0	2	36	0	0	0	27	2	0	71
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	10	0	4	0	4	162	0	0	0	145	11	1	337
APPROACH %'s :					71.43%	0.00%	28.57%	0.00%	2.41%	97.59%	0.00%	0.00%	0.00%	92.36%	7.01%	0.64%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	10	0	4	0	4	162	0	0	0	145	11	1	337
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.625	0.000	0.500	0.000	0.500	0.779	0.000	0.000	0.000	0.771	0.550	0.250	0.810
					0.700				0.769				0.801				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Lark Ellen Ave & San Bernardino Rd
City: West Covina
Control: Signalized

Project ID: 21-020029-003
Date: 2/2/2021

Total

NS/EW Streets:	Lark Ellen Ave				Lark Ellen Ave				San Bernardino Rd				San Bernardino Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	8	49	5	0	11	51	6	0	3	25	4	0	7	46	11	0	226
7:15 AM	9	49	6	0	7	54	9	0	3	42	10	0	5	44	6	0	244
7:30 AM	8	66	14	0	12	66	11	0	12	56	7	0	7	64	8	0	331
7:45 AM	11	85	15	0	7	71	12	0	9	53	14	0	12	52	12	0	353
8:00 AM	8	66	6	0	13	69	14	0	5	47	11	0	6	57	7	0	309
8:15 AM	10	61	6	0	9	56	8	0	5	58	8	0	8	41	7	0	277
8:30 AM	6	46	15	0	12	64	5	0	5	51	17	0	8	51	16	0	296
8:45 AM	14	75	20	0	17	55	7	0	13	55	8	0	9	46	10	0	329
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	74	497	87	0	88	486	72	0	55	387	79	0	62	401	77	0	2365
APPROACH %'s :	11.25%	75.53%	13.22%	0.00%	13.62%	75.23%	11.15%	0.00%	10.56%	74.28%	15.16%	0.00%	11.48%	74.26%	14.26%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	37	278	41	0	41	262	45	0	31	214	40	0	33	214	34	0	1270
PEAK HR FACTOR :	0.841	0.818	0.683	0.000	0.788	0.923	0.804	0.000	0.646	0.922	0.714	0.000	0.688	0.836	0.708	0.000	0.899
	0.802				0.906				0.938				0.889				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	9	67	20	0	18	43	11	0	10	56	8	0	9	62	9	0	322
10:15 AM	10	63	22	0	17	65	14	0	7	70	6	0	15	61	18	0	368
10:30 AM	12	55	14	0	18	52	5	0	6	63	9	0	13	77	18	0	342
10:45 AM	8	59	15	0	16	49	9	0	12	73	10	0	15	59	18	0	343
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	39	244	71	0	69	209	39	0	35	262	33	0	52	259	63	0	1375
APPROACH %'s :	11.02%	68.93%	20.06%	0.00%	21.77%	65.93%	12.30%	0.00%	10.61%	79.39%	10.00%	0.00%	13.90%	69.25%	16.84%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	39	244	71	0	69	209	39	0	35	262	33	0	52	259	63	0	1375
PEAK HR FACTOR :	0.813	0.910	0.807	0.000	0.958	0.804	0.696	0.000	0.729	0.897	0.825	0.000	0.867	0.841	0.875	0.000	0.934
	0.922				0.826				0.868				0.866				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	10	107	26	0	23	91	8	0	14	137	33	0	20	72	31	0	572
4:15 PM	12	99	9	0	39	86	10	0	10	139	21	0	17	76	18	0	536
4:30 PM	14	124	33	0	15	77	10	0	13	132	24	0	20	72	27	0	561
4:45 PM	14	108	23	0	14	111	14	0	16	138	27	0	22	77	22	0	586
5:00 PM	19	126	21	0	18	90	9	0	12	98	24	0	20	81	27	0	545
5:15 PM	17	121	21	0	21	90	14	0	21	118	20	0	20	65	23	0	551
5:30 PM	15	130	22	0	27	94	15	0	19	124	34	0	17	79	22	0	598
5:45 PM	11	104	26	0	24	109	8	0	18	113	17	0	16	80	27	0	553
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	112	919	181	0	181	748	88	0	123	999	200	0	152	602	197	0	4502
APPROACH %'s :	9.24%	75.83%	14.93%	0.00%	17.80%	73.55%	8.65%	0.00%	9.30%	75.57%	15.13%	0.00%	15.98%	63.30%	20.72%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	65	485	87	0	80	385	52	0	68	478	105	0	79	302	94	0	2280
PEAK HR FACTOR :	0.855	0.933	0.946	0.000	0.741	0.867	0.867	0.000	0.810	0.866	0.772	0.000	0.898	0.932	0.870	0.000	0.953
	0.954				0.930				0.899				0.928				

NS/EW Streets:	Lark Ellen Ave				Lark Ellen Ave				San Bernardino Rd				San Bernardino Rd				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	8	55	5	0	6	37	6	0	5	23	7	0	14	47	11	0	224
8:15 PM	3	44	10	0	14	27	5	0	6	34	5	0	8	34	16	0	206
8:30 PM	9	49	12	0	7	41	3	0	6	30	3	0	4	26	11	0	201
8:45 PM	5	28	6	0	6	33	3	0	3	20	10	0	4	22	6	0	146
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	25	176	33	0	33	138	17	0	20	107	25	0	30	129	44	0	777
APPROACH %'s :	10.68%	75.21%	14.10%	0.00%	17.55%	73.40%	9.04%	0.00%	13.16%	70.39%	16.45%	0.00%	14.78%	63.55%	21.67%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	25	176	33	0	33	138	17	0	20	107	25	0	30	129	44	0	777
PEAK HR FACTOR :	0.694	0.800	0.688	0.000	0.589	0.841	0.708	0.000	0.833	0.787	0.625	0.000	0.536	0.686	0.688	0.000	0.867
	0.836				0.922				0.844				0.705				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Rimsdale Ave & San Bernardino Rd
City: West Covina
Control: Signalized

Project ID: 21-020048-001
Date: 2/16/2021

Total

NS/EW Streets:	Rimsdale Ave				Rimsdale Ave				San Bernardino Rd				San Bernardino Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	10	2	4	0	3	3	5	0	2	30	4	0	7	43	3	0	116
7:15 AM	8	2	6	0	6	1	7	0	2	49	6	0	3	61	6	0	157
7:30 AM	3	1	6	0	4	4	3	0	4	62	9	0	4	55	4	0	159
7:45 AM	11	2	9	0	6	3	6	0	2	61	8	0	12	64	0	0	184
8:00 AM	10	7	4	0	8	6	5	0	3	64	7	0	9	56	6	0	185
8:15 AM	11	5	11	0	10	2	4	0	7	68	11	0	7	48	9	0	193
8:30 AM	6	3	5	0	18	10	9	0	9	58	11	0	3	58	14	0	204
8:45 AM	12	6	8	0	26	6	7	0	8	54	14	0	6	49	10	0	206
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	71	28	53	0	81	35	46	0	37	446	70	0	51	434	52	0	1404
APPROACH %'s :	46.71%	18.42%	34.87%	0.00%	50.00%	21.60%	28.40%	0.00%	6.69%	80.65%	12.66%	0.00%	9.50%	80.82%	9.68%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	39	21	28	0	62	24	25	0	27	244	43	0	25	211	39	0	788
PEAK HR FACTOR :	0.813	0.750	0.636	0.000	0.596	0.600	0.694	0.000	0.750	0.897	0.768	0.000	0.694	0.909	0.696	0.000	0.956
	0.815				0.712				0.913				0.917				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	16	6	22	0	19	2	10	0	18	65	13	0	7	55	13	0	246
10:15 AM	15	11	13	0	28	11	12	0	12	55	15	0	5	62	18	0	257
10:30 AM	16	11	12	0	25	13	13	0	14	66	21	0	12	70	19	0	292
10:45 AM	14	17	14	0	25	16	11	0	14	80	18	0	8	79	38	0	334
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	61	45	61	0	97	42	46	0	58	266	67	0	32	266	88	0	1129
APPROACH %'s :	36.53%	26.95%	36.53%	0.00%	52.43%	22.70%	24.86%	0.00%	14.83%	68.03%	17.14%	0.00%	8.29%	68.91%	22.80%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	61	45	61	0	97	42	46	0	58	266	67	0	32	266	88	0	1129
PEAK HR FACTOR :	0.953	0.662	0.693	0.000	0.866	0.656	0.885	0.000	0.806	0.831	0.798	0.000	0.667	0.842	0.579	0.000	0.845
	0.928				0.889				0.873				0.772				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	18	13	25	0	26	11	19	0	21	127	27	0	11	100	16	0	414
4:15 PM	12	14	22	0	21	13	11	0	25	135	19	0	14	88	20	0	394
4:30 PM	26	11	23	0	29	13	12	0	20	146	18	0	11	103	11	0	423
4:45 PM	19	15	29	0	25	15	12	0	13	143	17	0	13	124	17	0	442
5:00 PM	22	10	18	0	30	14	13	0	7	131	20	0	16	98	11	1	391
5:15 PM	18	6	25	0	8	6	4	0	7	161	14	0	13	95	8	0	365
5:30 PM	18	4	18	0	10	10	7	0	5	144	17	0	6	83	8	0	330
5:45 PM	15	11	16	0	10	7	3	0	8	110	22	0	11	126	6	0	345
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	148	84	176	0	159	89	81	0	106	1097	154	0	95	817	97	1	3104
APPROACH %'s :	36.27%	20.59%	43.14%	0.00%	48.33%	27.05%	24.62%	0.00%	7.81%	80.84%	11.35%	0.00%	9.41%	80.89%	9.60%	0.10%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	75	53	99	0	101	52	54	0	79	551	81	0	49	415	64	0	1673
PEAK HR FACTOR :	0.721	0.883	0.853	0.000	0.871	0.867	0.711	0.000	0.790	0.943	0.750	0.000	0.875	0.837	0.800	0.000	0.946
	0.901				0.924				0.966				0.857				

Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	1	1	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	3	1	5	0	4	1	2	0	3	56	7	0	2	50	3	0	137
8:15 PM	7	2	3	0	8	0	1	0	2	49	5	0	4	50	4	0	135
8:30 PM	9	0	9	0	5	2	0	0	4	38	10	0	3	40	3	0	123
8:45 PM	9	2	4	0	1	1	3	0	1	30	7	0	6	40	2	0	106
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	28	5	21	0	18	4	6	0	10	173	29	0	15	180	12	0	501
APPROACH %'s :	51.85%	9.26%	38.89%	0.00%	64.29%	14.29%	21.43%	0.00%	4.72%	81.60%	13.68%	0.00%	7.25%	86.96%	5.80%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	28	5	21	0	18	4	6	0	10	173	29	0	15	180	12	0	501
PEAK HR FACTOR :	0.778	0.625	0.583	0.000	0.563	0.500	0.500	0.000	0.625	0.772	0.725	0.000	0.625	0.900	0.750	0.000	0.914
	0.750				0.778				0.803				0.892				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Azusa Ave & San Bernardino Rd
City: West Covina
Control: Signalized

Project ID: 21-020029-004
Date: 2/2/2021

Total

NS/EW Streets:	Azusa Ave				Azusa Ave				San Bernardino Rd				San Bernardino Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	14	72	3	3	2	97	11	0	8	18	14	0	10	30	2	0	284
7:15 AM	7	72	7	2	2	108	9	1	10	21	19	0	18	37	1	0	314
7:30 AM	21	91	14	4	5	107	12	2	15	30	26	0	21	49	8	0	405
7:45 AM	15	70	15	4	10	121	19	0	17	45	24	0	17	46	8	0	411
8:00 AM	22	85	13	4	7	120	12	0	14	42	17	0	14	42	9	0	401
8:15 AM	14	86	15	3	14	91	12	1	31	47	17	0	25	44	5	0	405
8:30 AM	17	113	14	3	8	109	18	0	15	40	18	0	19	45	7	0	426
8:45 AM	16	89	12	2	11	98	18	2	26	53	17	0	21	47	15	0	427
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	126	678	93	25	59	851	111	6	136	296	152	0	145	340	55	0	3073
APPROACH %'s :	13.67%	73.54%	10.09%	2.71%	5.74%	82.86%	10.81%	0.58%	23.29%	50.68%	26.03%	0.00%	26.85%	62.96%	10.19%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	69	373	54	12	40	418	60	3	86	182	69	0	79	178	36	0	1659
PEAK HR FACTOR :	0.784	0.825	0.900	0.750	0.714	0.871	0.833	0.375	0.694	0.858	0.958	0.000	0.790	0.947	0.600	0.000	0.971
		0.864				0.937				0.878				0.883			

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	23	132	14	6	11	123	33	3	26	40	20	0	17	48	7	0	503
10:15 AM	25	99	7	2	13	139	21	4	28	67	18	0	26	59	16	0	524
10:30 AM	26	114	9	4	17	136	22	2	28	50	26	0	18	56	11	0	519
10:45 AM	21	120	11	3	20	118	14	0	31	64	19	0	18	47	15	0	501
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	95	465	41	15	61	516	90	9	113	221	83	0	79	210	49	0	2047
APPROACH %'s :	15.42%	75.49%	6.66%	2.44%	9.02%	76.33%	13.31%	1.33%	27.10%	53.00%	19.90%	0.00%	23.37%	62.13%	14.50%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	95	465	41	15	61	516	90	9	113	221	83	0	79	210	49	0	2047
PEAK HR FACTOR :	0.913	0.881	0.732	0.625	0.763	0.928	0.682	0.563	0.911	0.825	0.798	0.000	0.760	0.890	0.766	0.000	0.977
		0.880				0.955				0.914				0.837			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	31	179	19	6	33	197	25	5	35	116	24	0	29	61	14	0	774
4:15 PM	23	144	15	0	23	180	18	6	34	94	41	0	36	55	12	0	681
4:30 PM	23	190	29	2	24	211	12	5	33	104	31	0	28	49	27	0	768
4:45 PM	25	175	17	5	16	147	14	10	49	115	33	0	23	75	15	0	719
5:00 PM	31	175	20	3	33	199	16	9	36	94	34	0	25	66	11	0	752
5:15 PM	16	174	22	2	26	168	13	4	42	131	23	0	34	62	15	0	732
5:30 PM	41	189	15	6	21	192	11	11	27	106	29	0	25	64	11	0	748
5:45 PM	30	156	19	5	24	157	14	10	44	121	18	0	23	60	21	0	702
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	220	1382	156	29	200	1451	123	60	300	881	233	0	223	492	126	0	5876
APPROACH %'s :	12.31%	77.34%	8.73%	1.62%	10.91%	79.12%	6.71%	3.27%	21.22%	62.31%	16.48%	0.00%	26.52%	58.50%	14.98%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	95	714	88	12	99	725	55	28	160	444	121	0	110	252	68	0	2971
PEAK HR FACTOR :	0.766	0.939	0.759	0.600	0.750	0.859	0.859	0.700	0.816	0.847	0.890	0.000	0.809	0.840	0.630	0.000	0.967
		0.931				0.882				0.920				0.951			

NS/EW Streets:	Azusa Ave				Azusa Ave				San Bernardino Rd				San Bernardino Rd				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	17	88	3	0	17	94	17	2	14	18	13	0	8	22	8	0	321
8:15 PM	16	80	11	2	10	87	12	3	8	26	14	0	15	23	5	0	312
8:30 PM	18	92	2	4	12	81	13	0	14	20	7	0	6	13	6	0	288
8:45 PM	13	88	7	5	13	71	11	3	12	21	10	0	12	16	4	0	286
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	64	348	23	11	52	333	53	8	48	85	44	0	41	74	23	0	1207
APPROACH %'s :	14.35%	78.03%	5.16%	2.47%	11.66%	74.66%	11.88%	1.79%	27.12%	48.02%	24.86%	0.00%	29.71%	53.62%	16.67%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	64	348	23	11	52	333	53	8	48	85	44	0	41	74	23	0	1207
PEAK HR FACTOR :	0.889	0.946	0.523	0.550	0.765	0.886	0.779	0.667	0.857	0.817	0.786	0.000	0.683	0.804	0.719	0.000	0.940
		0.961				0.858				0.922				0.802			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Vincent Ave & Badillo St
City: West Covina
Control: Signalized

Project ID: 21-020029-005
Date: 2/2/2021

Total

NS/EW Streets:	Vincent Ave				Vincent Ave				Badillo St				Badillo St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	79	8	0	5	81	6	1	3	29	14	1	12	45	5	0	292
7:15 AM	2	107	19	1	2	101	11	1	5	38	14	3	23	61	8	0	396
7:30 AM	6	86	20	1	9	121	12	3	4	56	13	0	8	53	9	0	401
7:45 AM	11	115	23	0	3	114	6	0	3	77	11	3	11	69	14	1	461
8:00 AM	6	88	15	1	4	103	11	1	3	57	9	1	14	53	11	3	380
8:15 AM	12	70	21	0	1	100	5	1	5	55	13	0	19	46	13	1	362
8:30 AM	15	83	14	0	7	99	10	1	3	50	15	1	10	36	3	0	347
8:45 AM	12	77	15	0	6	90	4	1	3	62	12	0	22	55	8	1	368
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	67	705	135	3	37	809	65	9	29	424	101	9	119	418	71	6	3007
APPROACH %'s :	7.36%	77.47%	14.84%	0.33%	4.02%	87.93%	7.07%	0.98%	5.15%	75.31%	17.94%	1.60%	19.38%	68.08%	11.56%	0.98%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	25	396	77	3	18	439	40	5	15	228	47	7	56	236	42	4	1638
PEAK HR FACTOR :	0.568	0.861	0.837	0.750	0.500	0.907	0.833	0.417	0.750	0.740	0.839	0.583	0.609	0.855	0.750	0.333	0.888
		0.841				0.866				0.790				0.889			

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	5	65	20	0	8	74	5	3	3	54	17	0	17	49	12	1	333
10:15 AM	5	73	17	0	1	81	4	2	3	60	12	1	22	56	9	1	347
10:30 AM	4	74	23	0	8	85	8	1	7	63	14	0	13	56	8	0	364
10:45 AM	6	75	21	0	4	98	6	0	9	64	13	1	18	56	14	1	386
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	20	287	81	0	21	338	23	6	22	241	56	2	70	217	43	3	1430
APPROACH %'s :	5.15%	73.97%	20.88%	0.00%	5.41%	87.11%	5.93%	1.55%	6.85%	75.08%	17.45%	0.62%	21.02%	65.17%	12.91%	0.90%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	20	287	81	0	21	338	23	6	22	241	56	2	70	217	43	3	1430
PEAK HR FACTOR :	0.833	0.957	0.880	0.000	0.656	0.862	0.719	0.500	0.611	0.941	0.824	0.500	0.795	0.969	0.768	0.750	0.926
		0.951				0.898				0.922				0.935			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	114	51	0	11	132	9	1	8	121	23	0	38	83	16	3	618
4:15 PM	10	124	39	0	10	131	10	0	8	186	37	0	19	76	6	1	657
4:30 PM	12	142	37	1	14	181	11	5	6	151	35	2	24	92	7	0	720
4:45 PM	13	143	41	0	6	147	15	0	9	154	26	0	29	97	17	3	700
5:00 PM	14	132	37	1	8	136	17	2	15	173	45	1	24	67	16	1	689
5:15 PM	8	140	56	0	14	152	13	3	13	180	32	1	23	93	19	2	749
5:30 PM	17	144	34	0	9	166	15	2	12	192	22	1	24	68	14	3	723
5:45 PM	18	140	33	0	14	142	11	0	14	153	32	1	20	58	17	4	657
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	100	1079	328	2	86	1187	101	13	85	1310	252	6	201	634	112	17	5513
APPROACH %'s :	6.63%	71.50%	21.74%	0.13%	6.20%	85.58%	7.28%	0.94%	5.14%	79.25%	15.25%	0.36%	20.85%	65.77%	11.62%	1.76%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	52	559	168	1	37	601	60	7	49	699	125	3	100	325	66	9	2861
PEAK HR FACTOR :	0.765	0.970	0.750	0.250	0.661	0.905	0.882	0.583	0.817	0.910	0.694	0.750	0.862	0.838	0.868	0.750	0.955
		0.956				0.918				0.936				0.856			

NS/EW Streets:	Vincent Ave				Vincent Ave				Badillo St				Badillo St				
PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	8	57	10	1	6	67	5	3	6	27	11	1	8	37	2	0	249
8:15 PM	10	63	16	0	4	37	4	1	2	45	13	1	10	40	3	0	249
8:30 PM	8	50	9	1	5	65	11	0	3	24	7	1	2	33	5	0	224
8:45 PM	1	55	10	0	1	42	8	2	2	39	3	1	9	32	3	0	208
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	27	225	45	2	16	211	28	6	13	135	34	4	29	142	13	0	930
APPROACH %'s :	9.03%	75.25%	15.05%	0.67%	6.13%	80.84%	10.73%	2.30%	6.99%	72.58%	18.28%	2.15%	15.76%	77.17%	7.07%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	27	225	45	2	16	211	28	6	13	135	34	4	29	142	13	0	930
PEAK HR FACTOR :	0.675	0.893	0.703	0.500	0.667	0.787	0.636	0.500	0.542	0.750	0.654	1.000	0.725	0.888	0.650	0.000	0.934
		0.840				0.806				0.762				0.868			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Lark Ellen Ave & Badillo St
City: West Covina
Control: Signalized

Project ID: 21-020029-006
Date: 2/2/2021

Total

NS/EW Streets:	Lark Ellen Ave				Lark Ellen Ave				Badillo St				Badillo St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	4	50	6	0	6	50	8	0	4	36	1	2	7	51	12	0	237
7:15 AM	9	49	13	0	7	46	12	0	8	45	3	1	13	74	11	1	292
7:30 AM	10	66	11	0	4	70	11	0	9	60	3	2	17	59	12	1	335
7:45 AM	13	88	17	0	8	80	9	0	8	87	7	4	11	83	10	3	428
8:00 AM	7	72	16	0	5	74	9	0	6	63	7	5	7	75	9	1	356
8:15 AM	11	61	11	0	4	65	8	0	3	74	4	0	12	49	14	1	317
8:30 AM	4	55	16	0	8	66	5	0	7	58	6	4	12	52	8	2	303
8:45 AM	8	88	16	0	5	61	12	0	9	63	8	1	14	51	10	2	348
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	66	529	106	0	47	512	74	0	54	486	39	19	93	494	86	11	2616
APPROACH %'s :	9.42%	75.46%	15.12%	0.00%	7.42%	80.88%	11.69%	0.00%	9.03%	81.27%	6.52%	3.18%	13.60%	72.22%	12.57%	1.61%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	41	287	55	0	21	289	37	0	26	284	21	11	47	266	45	6	1436
PEAK HR FACTOR :	0.788	0.815	0.809	0.000	0.656	0.903	0.841	0.000	0.722	0.816	0.750	0.550	0.691	0.801	0.804	0.500	0.839
	0.811				0.894				0.807				0.850				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	9	76	20	0	8	47	6	0	8	70	4	1	18	69	8	0	344
10:15 AM	4	65	15	0	6	70	12	0	10	58	7	1	17	65	18	2	350
10:30 AM	8	61	6	0	6	55	7	0	6	92	6	1	17	67	10	2	344
10:45 AM	9	74	14	0	7	69	4	0	8	69	1	0	18	60	9	2	344
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	30	276	55	0	27	241	29	0	32	289	18	3	70	261	45	6	1382
APPROACH %'s :	8.31%	76.45%	15.24%	0.00%	9.09%	81.14%	9.76%	0.00%	9.36%	84.50%	5.26%	0.88%	18.32%	68.32%	11.78%	1.57%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	30	276	55	0	27	241	29	0	32	289	18	3	70	261	45	6	1382
PEAK HR FACTOR :	0.833	0.908	0.688	0.000	0.844	0.861	0.604	0.000	0.800	0.785	0.643	0.750	0.972	0.946	0.625	0.750	0.987
	0.860				0.844				0.814				0.936				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	109	16	0	9	120	12	0	14	155	11	0	32	95	18	0	599
4:15 PM	8	98	24	0	14	109	6	0	17	183	12	2	24	91	16	3	607
4:30 PM	6	131	20	0	11	119	5	0	13	176	13	0	33	107	15	2	651
4:45 PM	13	120	21	0	12	115	13	0	17	188	17	0	29	107	15	2	669
5:00 PM	7	132	23	0	18	123	12	0	20	162	18	0	23	100	16	3	657
5:15 PM	12	127	27	0	13	116	7	0	18	199	10	7	33	114	15	1	699
5:30 PM	10	137	17	0	13	128	8	0	12	213	15	4	34	88	10	0	689
5:45 PM	13	109	22	0	11	127	5	0	10	192	15	1	15	81	24	2	627
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	77	963	170	0	101	957	68	0	121	1468	111	14	223	783	129	13	5198
APPROACH %'s :	6.36%	79.59%	14.05%	0.00%	8.97%	84.99%	6.04%	0.00%	7.06%	85.65%	6.48%	0.82%	19.43%	68.21%	11.24%	1.13%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	42	516	88	0	56	482	40	0	67	762	60	11	119	409	56	6	2714
PEAK HR FACTOR :	0.808	0.942	0.815	0.000	0.778	0.941	0.769	0.000	0.838	0.894	0.833	0.393	0.875	0.897	0.875	0.500	0.971
	0.973				0.944				0.922				0.905				

NS/EW Streets:	Lark Ellen Ave				Lark Ellen Ave				Badillo St				Badillo St				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	4	55	2	0	3	50	9	0	4	34	4	1	7	40	9	1	223
8:15 PM	4	41	5	0	6	29	1	0	11	44	3	0	6	42	7	0	199
8:30 PM	3	50	4	0	2	41	3	0	9	34	2	0	5	38	8	0	199
8:45 PM	4	35	3	0	9	37	4	0	2	40	7	0	5	37	3	2	188
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	15	181	14	0	20	157	17	0	26	152	16	1	23	157	27	3	809
APPROACH %'s :	7.14%	86.19%	6.67%	0.00%	10.31%	80.93%	8.76%	0.00%	13.33%	77.95%	8.21%	0.51%	10.95%	74.76%	12.86%	1.43%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	15	181	14	0	20	157	17	0	26	152	16	1	23	157	27	3	809
PEAK HR FACTOR :	0.938	0.823	0.700	0.000	0.556	0.785	0.472	0.000	0.591	0.864	0.571	0.250	0.821	0.935	0.750	0.375	0.907
	0.861				0.782				0.841				0.921				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Azusa Ave & Badillo St
City: West Covina
Control: Signalized

Project ID: 21-020029-007
Date: 2/2/2021

Total

NS/EW Streets:	Azusa Ave				Azusa Ave				Badillo St				Badillo St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	15	77	10	1	8	105	9	1	3	28	8	0	10	56	4	0	335
7:15 AM	24	81	15	5	8	110	16	3	8	44	11	0	19	68	4	0	416
7:30 AM	34	105	17	2	10	131	16	4	7	50	24	0	27	62	7	0	496
7:45 AM	26	101	29	2	14	116	15	2	8	88	8	0	18	51	4	0	482
8:00 AM	30	103	16	4	14	113	16	5	16	62	11	0	23	46	7	0	466
8:15 AM	25	109	16	1	13	104	14	1	8	53	23	0	17	55	10	0	449
8:30 AM	23	122	19	1	13	127	10	5	4	48	24	0	16	48	4	0	464
8:45 AM	33	103	25	3	19	119	9	3	12	60	21	0	20	58	9	0	494
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	210	801	147	19	99	925	105	24	66	433	130	0	150	444	49	0	3602
APPROACH %'s :	17.84%	68.05%	12.49%	1.61%	8.59%	80.23%	9.11%	2.08%	10.49%	68.84%	20.67%	0.00%	23.33%	69.05%	7.62%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	115	418	78	9	51	464	61	12	39	253	66	0	85	214	28	0	1893
PEAK HR FACTOR :	0.846	0.959	0.672	0.563	0.911	0.885	0.953	0.600	0.609	0.719	0.688	0.000	0.787	0.863	0.700	0.000	0.954
	0.981				0.913				0.861				0.852				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	25	158	25	4	12	140	12	6	13	60	20	0	15	57	10	0	557
10:15 AM	30	115	27	3	11	138	20	6	7	47	27	0	35	70	8	0	544
10:30 AM	25	136	18	1	25	152	12	4	6	69	21	0	30	60	10	0	569
10:45 AM	21	136	27	3	17	110	13	7	14	75	14	0	32	65	13	0	547
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	101	545	97	11	65	540	57	23	40	251	82	0	112	252	41	0	2217
APPROACH %'s :	13.40%	72.28%	12.86%	1.46%	9.49%	78.83%	8.32%	3.36%	10.72%	67.29%	21.98%	0.00%	27.65%	62.22%	10.12%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	101	545	97	11	65	540	57	23	40	251	82	0	112	252	41	0	2217
PEAK HR FACTOR :	0.842	0.862	0.898	0.688	0.650	0.888	0.713	0.821	0.714	0.837	0.759	0.000	0.800	0.900	0.788	0.000	0.974
	0.889				0.887				0.905				0.896				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	27	147	25	0	16	183	22	4	25	146	42	0	42	96	11	0	786
4:15 PM	35	198	37	4	24	231	17	4	18	152	37	0	33	89	11	0	890
4:30 PM	21	176	22	6	19	198	26	3	30	159	51	0	32	119	15	0	877
4:45 PM	35	182	24	2	15	190	17	8	28	142	30	0	34	92	14	0	813
5:00 PM	28	151	18	1	22	180	26	9	30	150	37	0	52	104	17	0	825
5:15 PM	31	217	26	4	23	210	16	4	28	143	40	0	34	117	19	0	912
5:30 PM	18	171	26	5	13	200	19	6	27	189	50	0	45	91	18	0	878
5:45 PM	43	184	22	3	20	148	18	5	25	131	38	0	33	81	13	0	764
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	238	1426	200	25	152	1540	161	43	211	1212	325	0	305	789	118	0	6745
APPROACH %'s :	12.60%	75.49%	10.59%	1.32%	8.02%	81.22%	8.49%	2.27%	12.07%	69.34%	18.59%	0.00%	25.17%	65.10%	9.74%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	112	721	94	12	73	780	78	27	113	624	157	0	165	404	68	0	3428
PEAK HR FACTOR :	0.800	0.831	0.904	0.600	0.793	0.929	0.750	0.750	0.942	0.825	0.785	0.000	0.793	0.863	0.895	0.000	0.940
	0.844				0.947				0.840				0.921				

NS/EW Streets:	Azusa Ave				Azusa Ave				Badillo St				Badillo St				
Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	22	97	15	3	13	90	9	2	4	37	18	0	28	39	6	0	383
8:15 PM	13	93	16	4	7	87	9	1	7	34	10	0	15	45	3	0	344
8:30 PM	9	106	10	2	7	86	5	2	9	30	6	0	16	30	7	0	325
8:45 PM	14	80	6	2	11	77	8	2	6	30	15	0	16	38	8	0	313
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	58	376	47	11	38	340	31	7	26	131	49	0	75	152	24	0	1365
APPROACH %'s :	11.79%	76.42%	9.55%	2.24%	9.13%	81.73%	7.45%	1.68%	12.62%	63.59%	23.79%	0.00%	29.88%	60.56%	9.56%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	58	376	47	11	38	340	31	7	26	131	49	0	75	152	24	0	1365
PEAK HR FACTOR :	0.659	0.887	0.734	0.688	0.731	0.944	0.861	0.875	0.722	0.885	0.681	0.000	0.670	0.844	0.750	0.000	0.891
	0.898				0.912				0.873				0.860				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Rimsdale Ave & Badillo St
City: West Covina
Control: Signalized

Project ID: 21-020048-002
Date: 2/16/2021

Total

NS/EW Streets:	Rimsdale Ave				Rimsdale Ave				Badillo St				Badillo St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	1	0	0	1	2	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	4	0	4	0	7	44	0	0	0	92	7	0	158
7:15 AM	0	0	0	0	5	0	5	0	9	63	0	0	0	65	2	0	149
7:30 AM	0	0	0	0	4	0	11	0	10	78	0	1	0	77	4	0	185
7:45 AM	0	0	0	0	9	0	11	0	8	98	0	1	0	94	6	0	227
8:00 AM	0	0	0	0	7	0	11	0	18	67	0	1	0	69	12	0	185
8:15 AM	0	0	0	0	8	0	7	0	13	95	0	0	0	81	9	0	213
8:30 AM	0	0	0	0	7	0	16	0	15	91	0	1	0	86	7	0	223
8:45 AM	0	0	0	0	9	0	9	1	17	85	0	0	0	87	9	0	217
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	53	0	74	1	97	621	0	4	0	651	56	0	1557
APPROACH %'s :					41.41%	0.00%	57.81%	0.78%	13.43%	86.01%	0.00%	0.55%	0.00%	92.08%	7.92%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	31	0	45	0	54	351	0	3	0	330	34	0	848
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.861	0.000	0.703	0.000	0.750	0.895	0.000	0.750	0.000	0.878	0.708	0.000	0.934
					0.826				0.944				0.910				

Mid Morning	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	1	0	0	1	2	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
10:00 AM	0	0	0	0	10	0	6	0	23	86	0	0	0	69	9	0	203
10:15 AM	0	0	0	0	16	0	10	0	13	87	0	0	0	66	18	0	210
10:30 AM	0	0	0	0	12	0	12	0	25	80	0	2	0	88	17	0	236
10:45 AM	0	0	0	0	17	0	19	0	20	94	0	0	0	78	19	0	247
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	55	0	47	0	81	347	0	2	0	301	63	0	896
APPROACH %'s :					53.92%	0.00%	46.08%	0.00%	18.84%	80.70%	0.00%	0.47%	0.00%	82.69%	17.31%	0.00%	
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	55	0	47	0	81	347	0	2	0	301	63	0	896
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.809	0.000	0.618	0.000	0.810	0.923	0.000	0.250	0.000	0.855	0.829	0.000	0.907
					0.708				0.943				0.867				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	1	0	0	1	2	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	25	0	22	0	40	186	0	3	0	97	19	0	392
4:15 PM	0	0	0	0	22	0	19	0	22	200	0	1	0	128	19	0	411
4:30 PM	0	0	0	0	21	0	22	0	23	163	0	1	0	128	13	0	371
4:45 PM	0	0	0	0	16	0	23	0	27	175	0	1	0	134	16	0	392
5:00 PM	0	0	0	0	15	0	29	0	23	198	0	1	0	115	19	0	400
5:15 PM	0	0	0	0	10	0	13	0	18	238	0	5	0	120	20	0	424
5:30 PM	0	0	0	0	9	0	20	0	21	200	0	4	0	137	16	0	407
5:45 PM	0	0	0	0	10	0	14	0	13	170	0	5	0	110	9	0	331
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	128	0	162	0	187	1530	0	21	0	969	131	0	3128
APPROACH %'s :					44.14%	0.00%	55.86%	0.00%	10.76%	88.03%	0.00%	1.21%	0.00%	88.09%	11.91%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	0	0	50	0	85	0	89	811	0	11	0	506	71	0	1623
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.781	0.000	0.733	0.000	0.824	0.852	0.000	0.550	0.000	0.923	0.888	0.000	0.957
					0.767				0.873				0.943				

Evening	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	1	0	0	1	2	0	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
8:00 PM	0	0	0	0	4	0	3	0	4	54	0	0	0	55	3	0	123
8:15 PM	0	0	0	0	3	0	9	0	9	57	0	2	0	56	3	0	139
8:30 PM	0	0	0	0	4	0	9	0	5	46	0	3	0	49	8	0	124
8:45 PM	0	0	0	0	5	0	11	0	3	28	0	0	0	51	3	0	101
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	16	0	32	0	21	185	0	5	0	211	17	0	487
APPROACH %'s :					33.33%	0.00%	66.67%	0.00%	9.95%	87.68%	0.00%	2.37%	0.00%	92.54%	7.46%	0.00%	
PEAK HR :	08:00 PM - 09:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	16	0	32	0	21	185	0	5	0	211	17	0	487
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.800	0.000	0.727	0.000	0.583	0.811	0.000	0.417	0.000	0.942	0.531	0.000	0.876
					0.750				0.776				0.966				

Appendix B – Traffic Count Conversions

2021 Raw Traffic Data

1 Vincent Ave & San Bernardino Rd — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	40	315	33	3	38	361	45	0	24	188	43	0	74	211	24	0
10:00 AM	32	248	61	9	55	273	44	0	27	214	31	0	83	192	51	0
PM Peak	56	486	97	15	78	504	29	0	90	483	89	0	90	231	66	0
8:00 PM	19	190	31	12	32	167	29	0	25	91	23	0	34	95	25	0

2 Cutter Way & San Bernardino Rd — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	0	0	0	0	17	0	6	0	1	248	0	0	0	293	12	0
10:00 AM	0	0	0	0	10	0	9	0	5	287	0	0	0	318	20	0
PM Peak	0	0	0	0	25	0	12	0	6	666	0	1	0	349	20	2
8:00 PM	0	0	0	0	10	0	4	0	4	162	0	0	0	145	11	1

3 Lark Ellen Ave & San Bernardino Rd — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	37	278	41	0	41	262	45	0	31	214	40	0	33	214	34	0
10:00 AM	39	244	71	0	69	209	39	0	35	262	33	0	52	259	63	0
PM Peak	65	485	87	0	80	385	52	0	68	478	105	0	79	302	94	0
8:00 PM	25	176	33	0	33	138	17	0	20	107	25	0	30	129	44	0

4 Rimsdale Ave & San Bernardino Rd — Raw data 2/16/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	39	21	28	0	62	24	25	0	27	244	43	0	25	211	39	0
10:00 AM	61	45	61	0	97	42	46	0	58	266	67	0	32	266	88	0
PM Peak	75	53	99	0	101	52	54	0	79	551	81	0	49	415	64	0
8:00 PM	28	5	21	0	18	4	6	0	10	173	29	0	15	180	12	0

5 Azusa Ave & San Bernardino Rd — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	69	373	54	12	40	418	60	3	86	182	69	0	79	178	36	0
10:00 AM	95	465	41	15	61	516	90	9	113	221	83	0	79	210	49	0
PM Peak	95	714	88	12	99	725	55	28	160	444	121	0	110	252	68	0
8:00 PM	64	348	23	11	52	333	53	8	48	85	44	0	41	74	23	0

6 Vincent Ave & Badillo St — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	25	396	77	3	18	439	40	5	15	228	47	7	56	236	42	4
10:00 AM	20	287	81	0	21	338	23	6	22	241	56	2	70	217	43	3
PM Peak	52	559	168	1	37	601	60	7	49	699	125	3	100	325	66	9
8:00 PM	27	225	45	2	16	211	28	6	13	135	34	4	29	142	13	0

7 Lark Ellen Ave & Badillo St — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	41	287	55	0	21	289	37	0	26	284	21	11	47	266	45	6
10:00 AM	30	276	55	0	27	241	29	0	32	289	18	3	70	261	45	6
PM Peak	42	516	88	0	56	482	40	0	67	762	60	11	119	409	56	6
8:00 PM	15	181	14	0	20	157	17	0	26	152	16	1	23	157	27	3

8 Rimsdale Ave & Badillo St — Raw data 2/16/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	0	0	0	0	31	0	45	0	54	351	0	3	0	330	34	0
10:00 AM	0	0	0	0	55	0	47	0	81	347	0	2	0	301	63	0
PM Peak	0	0	0	0	50	0	85	0	89	811	0	11	0	506	71	0
8:00 PM	0	0	0	0	16	0	32	0	21	185	0	5	0	211	17	0

9 Azusa Ave & Badillo St — Raw data 2/2/2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	115	418	78	9	51	464	61	12	39	253	66	0	85	214	28	0
10:00 AM	101	545	97	11	65	540	57	23	40	251	82	0	112	252	41	0
PM Peak	112	721	94	12	73	780	78	27	113	624	157	0	165	404	68	0
8:00 PM	58	376	47	11	38	340	31	7	26	131	49	0	75	152	24	0

2021 Traffic Volumes

1 Vincent Ave & San Bernardino Rd — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	91	720	75	7	87	825	103	-	55	430	98	-	169	482	55	-
10:00 AM	41	315	78	11	70	347	56	-	34	272	39	-	105	244	65	-
PM Peak	71	618	123	19	99	641	37	-	114	614	113	-	114	294	84	-
8:00 PM	24	241	39	15	41	212	37	-	32	116	29	-	43	121	32	-

2 Cutter Way & San Bernardino Rd — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	-	-	-	-	39	-	14	-	2	567	-	-	-	670	27	-
10:00 AM	-	-	-	-	13	-	11	-	6	365	-	-	-	404	25	-
PM Peak	-	-	-	-	32	-	15	-	8	846	-	1	-	444	25	3
8:00 PM	-	-	-	-	13	-	5	-	5	206	-	-	-	184	14	1

3 Lark Ellen Ave & San Bernardino Rd — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	85	635	94	-	94	599	103	-	71	489	91	-	75	489	78	-
10:00 AM	50	310	90	-	88	266	50	-	44	333	42	-	66	329	80	-
PM Peak	83	616	111	-	102	489	66	-	86	607	133	-	100	384	119	-
8:00 PM	32	224	42	-	42	175	22	-	25	136	32	-	38	164	56	-

4 Rimsdale Ave & San Bernardino Rd — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	89	48	64	-	142	55	57	-	62	558	98	-	57	482	89	-
10:00 AM	78	57	78	-	123	53	58	-	74	338	85	-	41	338	112	-
PM Peak	95	67	126	-	128	66	69	-	100	700	103	-	62	527	81	-
8:00 PM	36	6	27	-	23	5	8	-	13	220	37	-	19	229	15	-

5 Azusa Ave & San Bernardino Rd — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	158	853	123	27	91	955	137	7	197	416	158	-	181	407	82	-
10:00 AM	121	591	52	19	78	656	114	11	144	281	105	-	100	267	62	-
PM Peak	121	907	112	15	126	921	70	36	203	564	154	-	140	320	86	-
8:00 PM	81	442	29	14	66	423	67	10	61	108	56	-	52	94	29	-

6 Vincent Ave & Badillo St — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	57	905	176	7	41	1,003	91	11	34	521	107	16	128	539	96	9
10:00 AM	25	365	103	-	27	430	29	8	28	306	71	3	89	276	55	4
PM Peak	66	710	214	1	47	764	76	9	62	888	159	4	127	413	84	11
8:00 PM	34	286	57	3	20	268	36	8	17	172	43	5	37	180	17	-

7 Lark Ellen Ave & Badillo St — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	94	656	126	-	48	661	85	-	59	649	48	25	107	608	103	14
10:00 AM	38	351	70	-	34	306	37	-	41	367	23	4	89	332	57	8
PM Peak	53	656	112	-	71	613	51	-	85	968	76	14	151	520	71	8
8:00 PM	19	230	18	-	25	200	22	-	33	193	20	1	29	200	34	4

8 Rimsdale Ave & Badillo St — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	-	-	-	-	71	-	103	-	123	802	-	7	-	754	78	-
10:00 AM	-	-	-	-	70	-	60	-	103	441	-	3	-	383	80	-
PM Peak	-	-	-	-	64	-	108	-	113	1,031	-	14	-	643	90	-
8:00 PM	-	-	-	-	20	-	41	-	27	235	-	6	-	268	22	-

9 Azusa Ave & Badillo St — 2021

	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU
AM Peak	263	955	178	21	117	1,061	139	27	89	578	151	-	194	489	64	-
10:00 AM	128	693	123	14	83	686	72	29	51	319	104	-	142	320	52	-
PM Peak	142	916	119	15	93	991	99	34	144	793	200	-	210	513	86	-
8:00 PM	74	478	60	14	48	432	39	9	33	166	62	-	95	193	31	-

Conversion Factors (Covid-19 and Growth)				
	2019		2021	
	AM	PM	AM	PM
Vincent Ave & San Bernardino Rd	3,047	2,925	1,399	2,314
Vincent Ave & Badillo St	3,695	3,637	1,638	2,861
Lark Ellen Ave & San Bernardino Rd	2,882	2,967	1,270	2,280
Lark Ellen Ave & Badillo St	3,067	3,040	1,436	2,714
Cutter Way & San Bernardino Rd	1,472	1,370	577	1,018
	14,163	13,939	6,320	11,187
plus 1% growth/year	14,446	14,218		
Adjustment Factors			2.29	1.27

Appendix C – Site Traffic Schedule

Trip Generation Notes

Trip Generation Schedule

The site's proposed tenant provided 24-hour trip schedules by trip or vehicle type for normal operations. The schedule follows as Table C1. Normal operations are based on the typical number of packages the delivery station is expected to deliver on a typical weekday outside of peak season which is elven months of the year.

Trip Rate Comparison

ITE does not have a use classification that reflects operations of a delivery station. The tenant recently conducted a study (see California: Delivery Station Trip Generation Study, February 2021, following table C1) to develop preliminary trip rates for delivery stations. The table below summarizes the rates from that study.

Vehicle Type	Rate per 1000 sq. ft. of Operational Area				
	Daily	AM Peak Hr.	PM Peak Hr.	AM Peak Generator	PM Peak Generator
Autos	6.78	0.30	0.42	0.55	0.44
Vans	2.71	0.00	0.13	0.65	0.36
Trucks	0.17	0.01	0.00	0.01	0.01
All Traffic	9.66	0.31	0.55	1.21	0.81
In/Out	50% / 50%	85% / 15%	48% / 52%	41% / 59%	52% / 48%

Note that the trip rates were based on the size of a delivery station minus any interior parking, van loading and van staging areas (known as operational area). In this case, only 120,400 SF of the 177,440 SF will be used to sort the packages into delivery routes and for related employee support facilities (rest rooms, offices, etc.). The remaining area will be used to stage (vans waiting for their turn to be loaded) and load the vans. Applying the rates above result in the following trips.

Vehicle Type	Operational Area = 120,400 sq. ft.				
	Daily	AM Peak Hr.	PM Peak Hr.	AM Peak Generator	PM Peak Generator
Autos	816	36	50	66	52
Vans	326	0	16	78	4
Trucks	20	2	0	2	2
Total	**1162**	**38**	**66**	**146**	**98**

When compared to the trip schedules, the above rates result in more AM peak hour of the adjacent street trips, but the number is still relative insignificant. The results of for the PM peak hour of the adjacent street are very similar. Yet the trip schedule results in notably more site traffic during the peak hours of the generator.

Trip Source	Daily	AM Peak Hr.	PM Peak Hr.	AM Peak Generator	PM Peak Generator
Trip Schedule Normal Operations	914	2	63	182	163
Trip Rate Study for Sites in California	1,162	38	66	146	98

Trip Reduction Factor

During normal operations, a minimum of 10% of employees and van drivers are expected to use transit, other ride sharing opportunities such as carpools or vanpools, or walk/bike to work. This is based on an analysis of available transit schedules and bus stop locations compared to employee and driver shifts, as well as area transit usage (pre-COVID-19). Specifically:

- The metro area's transit usage is 5.1%.

- Local Fixed-Route Bus Route stops are less than a quarter mile from the site (at the intersection of San Bernardino Road @ Lark Ellen Avenue and San Bernardino Road @ Vincent Avenue).
- Bus service is available to all employee and van driver shifts except the arrival of the overnight employee shift.
- Bus service connects to the Metrolink commuter rail at El Monte and Baldwin Park Stations.
- Sidewalk connects the site to nearest bus stop, located only 500 feet from the site.
- Bus stops are signed, have seating, and are ADA accessible.
- Regional carpool/vanpool mode share is 9.6%.

Table C1 Delivery Station in West Covina, CA - Normal Operations

	Associates			Trucks			DSP Drivers			DSP Vans			Flex			Total		
Time	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
00:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	1	2
01:00	70	0	70	0	1	1	0	0	0	0	0	0	0	0	0	70	1	71
02:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	1	2
03:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
04:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
05:00	19	0	19	1	1	2	0	0	0	0	0	0	0	0	0	20	1	21
06:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
07:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
08:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	1	2
09:00	0	0	0	1	0	1	54	0	54	0	0	0	0	0	0	55	0	55
10:00	0	0	0	0	1	1	73	0	73	0	108	108	0	0	0	73	109	182
11:00	4	0	4	0	0	0	0	0	0	0	34	34	0	0	0	4	34	38
12:00	0	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70	70
13:00	36	0	36	0	0	0	0	0	0	0	0	0	0	0	0	36	0	36
14:00	0	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	1	0	1	0	0	0	0	0	0	45	18	63	46	18	64
17:00	0	0	0	0	1	1	0	0	0	0	0	0	0	27	27	0	28	28
18:00	0	17	17	1	1	2	0	0	0	0	0	0	0	0	0	1	18	19
19:00	0	0	0	1	1	2	0	24	24	54	0	54	0	0	0	55	25	80
20:00	0	0	0	1	1	2	0	80	80	81	0	81	0	0	0	82	81	163
21:00	0	0	0	1	0	1	0	23	23	7	0	7	0	0	0	8	23	31
22:00	0	23	23	1	1	2	0	0	0	0	0	0	0	0	0	1	24	25
23:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	1	2
Total	**129**	**129**	**258**	**14**	**14**	**28**	**127**	**127**	**254**	**142**	**142**	**284**	**45**	**45**	**90**	**457**	**457**	**914**

1st Shift:	2:00 AM	12:30 PM	78	Assoc.	27%
2nd Shift:	6:00 AM	2:30 PM	21	Assoc.	7%
3rd Shift:	1:30 PM	10:00 PM	21	Assoc.	7%
PFSD Shift:	2:00 PM	6:00 PM	19	Assoc.	7%
RTS Shift:	12:00 PM	10:30 PM	4	Assoc.	1%
Drivers:	9:20 AM	9:10 PM	142	Drivers	50%

CALIFORNIA: DELIVERY STATION TRIP GENERATION STUDY WHITE PAPER

CONTACT: JOHN KARNOWSKI, P.E., PTOE, AICP

Executive Summary

There is a national trend towards on-line shopping and delivery of goods in North America. None of the current ITE Trip Generation land uses represent the trips of delivery stations with a 24-hour schedule. This study presents data from four California delivery stations. Rates were based on 7-day averages for daily, AM/PM of the commuter peak hour, and AM/PM of the generator peak hour trip ends. Trip generation rates were calculated trip per 1,000 square foot of operational area.

The data confirms that 24-hour Delivery Stations exhibit trip generation characteristics that are significantly different from other potentially comparable land uses included in ITE's Trip Generation Manual, specifically land use codes (LU) 150, 154, 155, and 156. The results of the study support the need for a delivery station land use category.

The evaluation of four sites across the state of California yielded operational area (excluding all interior loading, queuing, and parking areas) as a functional metric. Total daily, AM and PM peaks of the adjacent street (typical commuting hours) and AM and PM peak of the generator average trip rates and best fit equations were developed and are documented within the report. Graphs similar to those included in ITE's Trip Generation Manual are included in the Appendix. The recommended weighted average trip rates are shown below.

Land Use	Independent Variable	Daily	Peak Hour of the Adjacent Street		Peak Hour of the Generator	
			AM	PM	AM	PM
Delivery Station	1,000 SF of Operational Area	9.66	0.31	0.55	1.21	0.81

Since Delivery Stations often designate driveways for specific purposes, such as delivery vehicle exits, the typical mix of vehicle types throughout the day and during peak periods are also provided.

Vehicle	Independent Variable	Daily	Peak Hour of the Adjacent Street		Peak Hour of the Generator	
			AM	PM	AM	PM
Passenger Vehicles	1,000 SF of Operational Area	6.78	0.30	0.42	0.55	0.44
Delivery Vans		2.71	-	0.13	0.65	0.36
Line-Haul Trucks		0.17	0.01	-	0.01	0.01

Key Conclusions

- 24-Hour Delivery Stations exhibit trip generation characteristics that are significantly different from other potentially comparable land uses included in ITE's Trip Generation Manual.
- Operational Area, the minimal building size requirement to process packages and support onsite workers, provides potential trip generation rates.

CALIFORNIA: DELIVERY STATION TRIP GENERATION STUDY WHITE PAPER

CONTACT: JOHN KARNOWSKI, P.E., PTOE, AICP

There is a national trend toward on-line shopping and delivery of goods in North America. The current ITE Trip Generation Land Use Codes do not represent the trips of delivery stations operating with 24-hour schedules. This study summarizes trip characteristics of four delivery stations in California, develops trip generation rates for an independent variable with the best possible correlation among the collected data, and compares the results to the existing trip rates for specific ITE Land Use Codes.

INTRODUCTION AND BACKGROUND

ITE does not have a standard for e-commerce delivery station operations. Traffic studies for these facilities frequently use warehousing, high-cube transload warehousing, fulfillment center, high-cube parcel hub warehousing (land use codes 154-156), or possibly another land use category to estimate trips for the stations. Consultants and local traffic agencies do not universally apply the land use codes for delivery stations. The inconsistent use of trip rates can result in confusion on the part of reviewing agencies, a distrust of the numbers provided by developers, delays in preparing traffic studies, and possibly unnecessary mitigation measures.

The purpose of this paper is to present delivery station trip characteristics, evaluate trip generation rates using independent variables, and develop a standard metric for delivery stations in California.

STUDY DESIGN

This trip generation study was designed to establish a method to generate delivery station trip ends based on actual trip counts from multiple delivery stations of various sizes in California.

- Sites were selected where trips into and out of a facility could be isolated from other trip generators, provided all necessary parking onsite (no off-site parking), were located where there were minimal or no multi-modal transportation options, and had been in operation long enough to establish routine schedules (30 days minimum).
- Trip counts were collected for 24-hour periods for seven consecutive days.
- Site operators provided employee numbers (onsite workers, not including delivery drivers).
- Site operators provided site plans, including the interior layouts for buildings.

Data Collection Methodology

Trip data was collected by National Data & Surveying Services (NDS) for all sites to ensure consistency. Data for three of the sites was collected Thursday, November 5 through Wednesday, November 11, 2020. Data for the fourth site was collected Thursday January 14 through Wednesday January 20, 2021. Data was recorded by video and tabulated as entering or exiting trips for each discrete driveway by vehicle type: automobiles (cars and pickup trucks), vans (26’ cargo vans), box trucks, tractor-trailers, and others (motorcycles, garbage pickup vehicles, etc.). A 24-hour bi-directional tube count was also taken at each site on an adjacent roadway with the highest daily traffic volume to establish the adjacent street AM and PM peak hours. Raw data is provided in a separate technical appendix, available upon request.

The data was collected during the COVID-19 pandemic and may be conservatively high due to an increase in on-line shopping due to stay-at-home orders issued to reduce the spread of the virus.

Raw data was summarized combining counts from all driveways to obtain total trip volumes and total trip volumes by vehicle type for each site. The peak hours of the adjacent street were determined by the highest volumes between 7:00 – 9:00 am and 4:00 – 6:00 pm from the 24-hour tube counts. The peak hours of the generator (the delivery station's highest volume in the morning and afternoon or evening) was determined by the highest volume between midnight and noon and between noon and midnight from the total trip counts at each site.

Trip data was summarized into vehicle types for passenger vehicle, delivery van and trucks (line-haul) for this study. Other unidentified vehicle types were added to the passenger vehicle type since they would be using the same driveways and there was insufficient data to categorize them otherwise. Box trucks were manually assigned as either delivery vans or line-haul trucks depending on their individual trip characters (e.g., Entering and exiting at the same times as vans vs. arriving and departing like line-haul trucks). Depending on the site, some packages are delivered to the station with box trucks when a line-haul truck is not necessary. At other locations, box trucks are used for some special delivery routes. A separate rate for heavy vehicles was not calculated since the presence of box trucks are atypical and the raw data did not specify if any of the other vehicle types were heavy vehicles.

Site	Address	Average Daily Trips	Average Employees	Building Size (SF)	Operational Area (S.F.)
A	1757 Tapo Canyon, Simi Valley, CA 93063	385	25	204,680	96,200
B	400 Littlefield Ave S. San Francisco CA 94080	850	124	166,640	56,970
C	600 W Technology Dr Palmdale, CA 93551	1,545	134	128,192	128,192
D	Vantage Point Poway, CA 92064	1,609	220	533,950	173,170

Independent Variables

A comparison of site plans for delivery stations (not just these four sites) exposes a wide variety of layouts, including site sizes, building sizes, and numbers of parking spaces. A preliminary assessment of daily trips to employees and total building size revealed very poor correlation of data among the sites. While the poor correlation between number of employees and total trip ends could not be explained, the differences between the sites in terms of total building size and how the buildings were being used was apparent. Delivery stations frequently occupy buildings that are larger than necessary for sorting packages for delivery routes. At many sites, vans are loaded inside the building. Others also have enough interior space for the next wave of delivery vehicles to queue before moving into the loading area. Still others have enough excess interior space to park delivery vehicles overnight, and in rare cases employees and delivery drivers also park inside buildings. Other sites do not have sufficient space to accommodate all parking needs.

Each delivery station has a minimal building size requirement to process packages and support onsite workers. This is termed "operational area" and is the initial requirement for site selection for new delivery stations. Existing and proposed buildings available for lease are often larger than this

operational area but are still leased for the delivery station and excess internal space is used for other functions as mentioned above. Operational areas for the four sites were estimated from site plans and then compared to the total daily trip ends. An explanation of how to determine operational area and the operational areas of the sites included in this study are included in the Appendix.

STUDY RESULTS

Weighted average trip rates, Standard Deviations (SD), best-fit curve equations (where applicable), equation coefficients of determination (R^2) (where applicable), percentages of entering and exiting trips, and vehicle mixes were calculated for the sites for the following time periods to mirror the types of rates documented in the ITE Trip Generation Manual. Trip ends per 1,000 square feet of operational area are presented below with graphed data summary sheets in the Appendix.

1. Total Daily Trips (7-Day Average)
2. AM Peak Hour of Adjacent Street Traffic (the delivery station's volume during rush hour)
3. PM Peak Hour of Adjacent Street Traffic (the delivery station's volume during rush hour)
4. AM Peak Hour of Generator (the delivery station's highest volume in the morning)
5. PM Peak Hour of Generator (the delivery station's highest volume in the afternoon or evening)

Total Daily Trips

Total daily trips for each site were summarized for all vehicle types at all driveways and averaged for the seven-day collection period. The data reflects the range of trip generation characteristics for the selected delivery stations. As expected, daily trips are evenly split between entering and exiting.

Passenger vehicles make up an average of 70% of the daily trip ends, delivery vans account for 28%, and tractor-trailer trucks comprise 2% of the daily trip ends. Trip rates by vehicle type are summarized on page 6.

Daily Trip Rate
(7-Day Weighted Average)

Site	Trips	Operational Area (S.F.)	Rate/ 1,000 SF
A	385	96,200	4.00
B	850	56,658	15.00
C	1,545	128,192	12.05
D	1,609	173,170	9.29
Average Rate:		9.66	
SD:		4.68	
Equation:		T = 8.6894x + 110.52	
R^2:		0.54	

AM Peak Hour of Adjacent Street Traffic

The AM peak hour of the adjacent street was determined for each site based on the 24-hour tube counts for the hours between 7:00 am and 9:00 am. The majority of morning peak trips are entering (85%) versus exiting (15%). Passenger vehicles make up the bulk (97%) of AM peak hour of the adjacent street trip ends. Delivery vans, and tractor-trailer trucks account for the remaining trip ends (1% and 2% respectively).

Adjacent Street AM Peak Hour Trip Rate
(7-Day Weighted Average)

Site	Trips	Operational Area (S.F.)	Rate/ 1,000 SF
A	9	96,200	0.09
B	20	56,658	0.35
C	86	128,192	0.67
D	27	173,170	0.16
Average Rate:		0.31	
SD:		0.26	
R^2:		<0.50	

The data shows that all the delivery stations generate fewer than 90 peak hour trips with three of the sites generating fewer than 30 trips during the typical AM commuting peak hour.

California Delivery Station
Trip Generation Study
Page 5 of 8

PM Peak Hour of Adjacent Street Traffic

The PM peak hour of the adjacent street was determined for each site based on the 24-hour tube counts for the hours between 4:00 pm and 6:00 pm. Evening peak hour traffic is almost evenly split between entering (48%) and exiting (52%). The vehicle breakdown during this period is very similar to the daily mix with 76% passenger vehicles, 24% delivery vans and on average no tractor-trailer trip ends.

Adjacent Street PM Peak Hour Trip Rate (7-Day Weighted Average)			
Site	Trips	Operational Area (S.F.)	Rate/ 1,000 SF
A	36	96,200	0.37
B	30	56,658	0.53
C	119	128,192	0.93
D	66	173,170	0.38
Average Rate:		0.55	
SD:		0.26	
$R^{2:}$		<0.50	

The data shows that all the delivery stations generate fewer than 120 peak hour trips with three of the sites generating fewer than 70 trips during the typical PM commuting peak hour.

AM Peak Hour of Generator

The AM peak hour of the generator was determined for each site based on the highest hourly total driveway volumes between midnight and noon as delivery stations operate 24-hours a day and schedule employees as well as deliveries off peak to the extent feasible in any given market. For all sites, the morning peak hour of the generator occurred between 10:00 am and 11:00 am. During this hour 41% of the trips are entering and 59% are exiting. During the morning peak hour of the generator passenger vehicles account for 46% of the trip ends. Delivery vans make up another 54% and on average there are no tractor-trailer trip ends during this peak.

Delivery Station AM Peak Hour Trip Rate (7-Day Weighted Average)			
Site	Trips	Operational Area (S.F.)	Rate/ 1,000 SF
A	74	96,200	0.77
B	99	56,658	1.75
C	157	128,192	1.22
D	220	173,170	1.27
Average Rate:		1.21	
SD:		0.40	
Equation:		T = 1.1628X + 5.4573	
$R^{2:}$		0.78	

The data confirms delivery stations generate more trips during a different morning hour than the typical peak hour of the adjacent street. An examination of the PM peak hour of the generator also confirms this is the highest peak hour of the day.

PM Peak Hour of Generator

The PM Peak hour of the generator was determined for each site based on the highest hourly total driveway volumes between the hours of noon and midnight similar to the morning peak hour of the generator. The evening peak hour of the generator occurred after 6:00 pm and typically occurred between 8:00 and 9:00 pm. During this hour traffic is almost evenly split between entering (52%) and exiting (48%). The mix of vehicles during this peak PM hour of the generator are 54% passenger vehicles, 45% delivery van, and 1% tractor-trailer trucks

Delivery Station PM Peak Hour Trip Rate (7-Day Weighted Average)			
Site	Trips	Operational Area (S.F.)	Rate/ 1,000 SF
A	37	96,200	0.38
B	56	56,658	0.99
C	124	128,192	0.97
D	151	173,170	0.87
Average Rate:		0.81	
SD:		0.28	
Equation:		T = 0.9565x – 16.61	
$R^{2:}$		0.76	

The data confirms delivery stations generate more trips during a different evening hour than the typical peak hour of the adjacent street.

Trip Rates by Vehicle Type

Trip Rates by Vehicle Type (7-Day Weighted Average)			
Time of Day	Passenger Vehicles	Delivery Vans	Line-Haul Trucks
Daily	6.78	2.71	0.17
AM Peak Hour of the Adjacent Street	0.30	-	0.01
AM Peak Hour of the Generator	0.55	0.65	0.01
PM Peak Hour of the Adjacent Street	0.42	0.13	-
PM Peak Hour of the Generator	0.44	0.36	0.01

Comparison to ITE Rates

The ITE Trip Generation land use descriptions for Warehousing (LU 150), High-Cube Transload and Short-Term Storage Warehouse (LU 154), High-Cube Fulfillment Center Warehouse (LU 155 non-sort), and High-Cube Parcel Hub Warehouse (LU 156) are the most comparable to the description of a delivery station. The sort version of the High-Cube Fulfillment Center Warehouse (LU 155) is not comparable but is included in these comparisons to so demonstrate.

Comparison 1: Published Trip Rates vs. This Study

The table below summarizes trip rates for square-footage-based size for these land uses and this study. Since the studies use different size types, this comparison is of little use, other than possibly to note that the standard deviation in the rates from this study are generally within the range of the standard deviations from the studies used in the Trip Generation Manual.

Trip Generation Rate Comparison[1]										
Source	Average Day		Peak Hour of the Adjacent Street				Peak Hour of the Generator			
	Rate	SD	AM	SD	PM	SD	AM	SD	PM	SD
ITE 150 - Warehousing	1.74	1.55	0.17	0.20	0.19	0.18	0.22	0.28	0.24	0.24
ITE 154 – High-Cube Transload & Short-Term Storage Warehouse	1.40	0.86	0.08	0.05	0.10	0.06	0.12	0.06	0.16	0.06
ITE 155 – High Cube Fulfillment Center Warehouse (Non-Sort)	1.81	0.76	0.15	0.15	0.16	0.15	0.22[2]	NA	0.27[2]	NA
ITE 155 – High Cube Fulfillment Center Warehouse (Sort)	6.44[3]	****	0.87[4]	0.51	1.20[4]	0.77	NA	-	NA	-
ITE 156 – High-Cube Parcel Hub Warehouse	4.63[5]	5.06	0.70[6]	0.21	0.64[6]	0.27	0.88[3]	NA	0.71[3]	NA
This Study[7]	**9.66**	**4.68**	**0.3**	**0.26**	**0.55**	**0.26**	**1.21**	**0.40**	**0.81**	**0.28**

[1]Gross floor area/1,000 used for ITE rates. This study uses operational area/1,000
[2]Based on a single study
[3]Based on two studies
[4]Based on three studies
[5]Based on eight studies
[6]Based on four studies
[7]Per 1,000 SF of operational area. Based on four studies

Comparison 2: Studies Used in Published ITE Rates vs. This Study

A comparison using the average sizes of the buildings included in the trip generation studies for the ITE published land uses demonstrates the variability of results using these rates. The average size of the buildings included in the ITE land uses are much larger than the average operational size of the delivery stations yet depending on the type of activity the buildings house, the typical delivery station may produce much less or much more traffic than a particular comparable land use.

Trips Generated using Average Size of Sites Included in Various Studies[1]						
Trip Rate Source	Average Size or Area[1]	Trip Ends				
		Average Day	Peak Hour of the Adjacent Street		Peak Hour of the Generator	
			AM	PM	AM	PM
ITE 150 - Warehousing	285,000	496	48	54	63	68
ITE 154 – High-Cube Transload & Short-Term Storage Warehouse	798,000	1,117	64	80	96	128
ITE 155 – High Cube Fulfillment Center Warehouse (Non-Sort)	886,000	1,604	133	142	197	241
ITE 155 – High Cube Fulfillment Center Warehouse (Sort)	1,360,000	8,758	1,183	1,632	-	-
ITE 156 – High-Cube Parcel Hub Warehouse	543,000	2,516	382	350	481	388
This Study	**113,555**	**1,097**	**36**	**63**	**138**	**92**

[1]Gross floor area/1,000 used for published ITE Land Uses. This study uses operational area/1,000

Comparison 3: Published ITE Rates Applied to This Study's Average Building Size vs. This Study

An additional comparison was developed based on the average building size (258,366 SF) and the average operational area (100,110 SF) from this study. ITE land uses were applied to generate the trip ends and compared to trip ends from this study. The results using the trip rates developed in this study are quite different from the results using the ITE rates.

Trips Generated using Average Size of Sites Included in this Study[1]						
Trip Rate Source	Average Size or Area[1]	Trip Ends				
		Average Day	Peak Hour of the Adjacent Street		Peak Hour of the Generator	
			AM	PM	AM	PM
ITE 150 - Warehousing	214,456	373	36	41	47	51
ITE 154 – High-Cube Transload & Short-Term Storage Warehouse	214,456	300	17	21	26	34
ITE 155 – High Cube Fulfillment Center Warehouse (Non-Sort)	214,456	388	32	34	48	58
ITE 155 – High Cube Fulfillment Center Warehouse (Sort)	214,456	1,381	187	257	-	-
ITE 156 – High-Cube Parcel Hub Warehouse	214,456	994	151	138	190	153
This Study	**113,555**	**1,097**	**36**	**63**	**138**	**92**

[1]Gross floor area/1,000 of this study used for published ITE land uses. This study uses operational area/1,000

These comparisons confirms that delivery station trip characteristics are different from other industrial land uses currently included in the ITE Trip Generation Manual.

Special Circumstances

All four sites in this study had on-site parking only. In situations where off-site parking is required, it is typically limited to delivery vans and employee parking remains on-site. When van parking is off-site, drivers park at the off-site location and drive the vans to the site. There is no reduction in trips to the site as it is a one-for-one swap of trips.

Trips are reduced when employees or delivery drivers use transit, ride sharing, or other non-single occupant vehicle transportation options are available. Employee and delivery driver trips can be reduced, but delivery vehicle trips cannot.

Conclusions and Recommendations

The data confirms that 24-hour Delivery Station trip generation characteristics are significantly different from those documented in the ITE Trip Generation for comparable land uses (land use codes 150, 154, 155 non-sort, 155 sort, and 156).

Key Conclusions:

- 24-Hour Delivery Stations exhibit trip generation characteristics that are significantly different from other potentially comparable land uses included in ITE's Trip Generation Manual.
- Operational area, as defined by that interior area necessary to the parcel sorting and delivery preparation activities (excluding all interior loading, queuing, and parking areas), provides promising trip generation rates. While operational area is not a conventional trip rate metric, ITE does include trip rates based on atypical metrics, such as fueling spots for gasoline stations and full-time doctors for medical clinics, when such metrics provide the best relationships between trip data.

The authors note that the goal of this study is to improve the traffic engineer's ability to select the proper land use trip generation rates specific to a project when working with delivery stations that operate off-peak hour employee and delivery schedules. The results are not intended to replace current trip generation rates or their application where operational characteristics are unknown.

Appendix D – Cumulative Development

Cumulative Project List - West Covina
Rev 12/16/2020

Address	Project Description
1912 W. Merced Avenue	New 81,759 sf, 111 bed assisted living facility
1611/1623 San Bernardino Road	New 105, 645 sq ft, 24-unit industrial condominiums
1530 W. Cameron Avenue	New 56-unit residential townhome development
2505/2539 E Garvey Avenue N	New shopping center; 35,000 sf grocery store, 7,600 sf retail, 4,500 sf restaurant
1415 W. Garvey Avenue N	New 80,086 sf, 5-story assisted living facility with memory care
1650 E. Rowland Avenue (former Pioneer School)	158-unit Multi-family residential/Subdivision
1115 S. Sunset Avenue	58,858 sq. ft. Medical Office Building, Parking Structure - 398 parking spaces, 66,000 sq. ft. ICU/Emergency Dept Hospital Addition
Side of Walnut Creek Pkwy. APN 8474-009-009	30-unit Multi-family residential
1024 W. Workman Avenue (Vincent School Site)	119-unit Multi-family residential/Subdivision
147 N. Barranca Street	2,925 sq. ft. new fastfood restaurant building with drive-thru
1600/1616 W. Cameron Avenue	84-unit Multifamily residential/Subdivision

City of Covina
List of Development Projects
Revised January 14, 2021

	APPLICANT/ DEVELOPER	LOCATION	PROJECT DESCRIPTION	ZONING	Acres	STATUS
1	City Ventures (Covina 3)	Southwest Quadrant of San Bernardino Road and Citrus Avenue	TTM 72116 and SPR 12-050 for a development of 52 three-story townhouses; 12 urban lofts and 4 live-work lofts; and, 5,794 square feet of a mix of office, retail and gallery uses	Covina Town Center Specific Plan-TOD/HDR	3.4	Completed, ready to release bonds
4	Grand Covina, LLC	777 Enda Place	TTM 73588 and SPR15-036 for the development of 3 multi-tenant industrial buildings with 26 industrial units totaling 99,272 sq. ft.	M-1 Light Manufacturing	4.38	Building 2 is final, Buildings 1 and 3 are under construction
5	Hassen Development	401 N. Citrus Avenue (Site B2) 129-137 W. Orange Street (Site B1) 155 E. San Bernardino Road (Site C)	SPR 15-043-Site B-2: 2,000 square feet office/retail TTM 72660-Site B-1: 8 condo units TTM 72662-Site C: 10 condo units and 2300 square feet retail space	Covina Town Center Specific Plan-Mixed Use Zone	0.95 (3 sites)	Site B1 and B2 are under construction Site C is in plan check
6	Hassen Development	NEC of N. Citrus and W. San Bernardino Rd	TTM 73661/SPR 16-028; proposed 161 residential units (56 townhouses and 105 stacked units), 15,000 sq. ft. commercial space	Covina Town Center Specific Plan-Mixed Use Zone	5.3	City Council approved June 16, 2020.

7	MLC Holdings; Foothill Transit & City of Covina (iTEC Transit Oriented Mixed-Use project)	Generally, at the northwest quadrant of N. Citrus Avenue and E. Covina Boulevard (1162 N. Citrus)	a) 117 townhouse units on 6.12 acres by MLC; b) a transit center and park and ride facility with 2 story parking structure for about 400 vehicles and 4800 sq. ft. retail building on 2.86 acres by Foothill Transit; and c) a 25,000 sq. ft. event center and 15,000 sq. ft. office use on 1.68 acres by the City	Covina Forward Specific Plan	10.71 acres	a) 117 townhouses completed, ready to release bonds b) Foothill Transit completed c) City owned parcel, vacant
8	Masonic Homes	1650 E. Old Badillo	SPR 16-006, a 35,000 sq. ft. 2-story building for 16 beds skilled nursing facility and 16 bed memory-care facility		NA	Project approved 11-22-2016; under construction, almost complete
10	Michael Cirrito	276 W. Dexter	3 condo units		8,309 sq. ft.	Under construction
13	Oakmont Assisted living/Memory Care facility	Southeast corner of E Holt and S Park View	Proposed 94 units/rooms for assisted living/memory care facility, 3-story building, approximately 40,793 square feet		1.93 acres	In plan check
14	Kaiser Permanente, Covina MOB, applicant	1154 & 1164 S Park View Dr	Proposed 58,800 SF, 3-story medical office building, with a 5-level parking structure to accommodate 344 parking spaces on three vacant lots at end of Park View Dr		3.47 acres	Approved
15	NFW Venture Inc	1680 W San Bernardino Rd	Demo and re-build a gas station with new 2,350 square feet convenience store and 2 lube bays for auto service		0.62 acres	Approved March 2018; under construction

16	Covina Bowl - Trumark Homes	1060 W. San Bernardino Road	Proposed 132 Townhome units, restoration of an original 1955 building (Covina Bowling Alley) for office use (12,000 sq. ft.)		5.23 acres	Under Review – Draft EIR Notice of Availability (review period from December 17, 2020 to February 1, 2021)
17	Avid Hotel	578 N. Azusa Avenue	Proposed 31,500 SF 3-story hotel (Avid Hotel), a midscale brand of International Hotel Group (IHG).			Under Review – Pre-Application Phase
18	McIntyre Group	135 E Badillo	25,024 square foot 3-story, mixed-use development with a 3,821 sq. ft commercial space on ground floor and 10 units on second and third floor			Approved January 2019, under construction
19	Bradford Park Properties, L.P. / William R. Mitchell	1201 W. Badillo Street	Proposed 3-Story 28-unit Apartment		1.22	Under Review – Pre-Application Phase
20	Faith Church – Mel Gaines	529 Cutter Way	Proposed 39 units & 11 Live-work units w/subterranean parking	M-1 Light Manufacturing	2.3 acres	Under Review
22	Circle K	731 N. Grand Avenue	Proposed 4,968 SF convenience store, a 6,514 SF 10-pump fuel canopy, and a 1,269 SF automatic carwash	C-4 Highway Commercial Zone	1.72	Approved October 2019, in plan check
21	Fourth Ave townhouse	342 S Fourth Avenue	Proposed 10-unit townhouse	RD-1250	0.72	PC recommended approval 1-12-21; pending Council review

Baldwin Park CUMULATIVE PROJECTS LIST - December 2019

Project #	Address	Description of Project	PC Approved	
TTM 78214 CP-867, PR 17-41	3234 Frazier Street	10 unit condominium	6/27/2018	Under Constrcution
TTM 77130, CP 855, PR 17-20	12756, 12762, 12766 and 12770 Torch Street	24 unit condominium	11/8/2017	Under Constrcution
TTM 75031	APN 8437-013-905	23 unit condominiumn	2/28/2018	Completed
CP 843	1606 Puente Ave.	1,200 sq ft drive through car wash and 358 sq ft convenience store	11/28/2018	Pending Building Permits
TTM 74525	15000 Badillo Street	16 unit condominium	12/13/2017	Pending Building Permits
TTM 74185	3913 Stewart Avenue	4-unit condominium	6/22/2016	Pending Building Permits
TTM 73928, CP 830, PR 15-38	4923-4929 Fortin Street , 15138 Nubia Street, and APN 8413-013-025	15 single family residential subdivision	7/27/2016	Under Constrcution
TTM 73355, CP 850, PR 16-77	15110-15120 Badillo Street	12 unit condominium	5/24/2017	Completed
AGP 118, ZC 118, SP 16-01, TTM 73354	14837-14839 Pacific Avenue; Assessor's Parcel Numbers: 8438-015-037, -043, -047, -059, -065 through -103, -060, -061, -062, -105	47 single family residential subdivision	11/9/2016	Completed
TPM 1427	13853 Garvey Avenue	2,961 sq ft 7/11 gas station and convenient store	5/27/2015	completed
ZV 19-01	13018 Dalewood St	1,048 sq ft house	5/22/2019	Pending Building Permits
TPM 1440, CP 879	3100 Baldwin Park Blvd	4,018 sq ft. Drive Thru Raising Canes Restaurant	7/17/2019	Completed
TTM 82503	4232 LA Rica Avenue	5 unit condominium	7/24/2019	Pending Building Permits
TPM 1438	APN 8556-022-037, 8556-022-	10, 345 sq ft commercial warehouse building	Not yet entitled	
TPM-82921, ZV 19-02, and CP- 888	13619 Francisquito Avenue	3,079 Express Carwash	12/11/19 PC Meeting	Pending Building Permits
CP889	5060 Gayurst Avenue	3,300 Warehouse	11/13/2019	Pending Building Permits
PR 19-69	13057, 13061, 13065 Garvey Avenue	15, 635 sq ft commercial industrial warehouse	8-Apr-20	Pending Building Permits
TPM- 1438 and ZV-716	13127 Garvey Avenue	10,345- square foot commercia	11-Mar-20	Pending Building Permits
		Jack in the box		Pending Building Permits
		starbucks		Pending Building Permits
TPM- 83340 and ZV-711	14614-14622 Dalewood Street	59,766-square foot general office, retail, and medical office building including subterranean parking and surface parking.	12/9/2020	Pending Building Permits

Appendix E – Signal Warrant Analyses

Traffic Signal Warrant Analysis Workbook

3/5/2021

STUDY AND ANALYSIS INFORMATION

Municipality:	Covina/West Covina	Analysis Date:	3/5/2021
County:		Conducted By:	NV5
PennDOT Engineering District:		Agency/Company Name:	NV5

Analysis Information

Data Collection Date:	2021 Build
Day of the Week:	Typical weekday

Is the intersection in a built-up area of an isolated community of <10,000 population? No

Major Street Information

Major Street Name and Route Number:	San Bernardino Raod
Major Street Approach #1 Direction:	E-Bound
Major Street Approach #2 Direction:	W-Bound

Number of Lanes for Moving Traffic on Each Major Street Approach:	2	LANE(S)
Speed Limit or 85th Percentile Speed on the Major Street:	40	MPH

Minor Street Information

Minor Street Name and Route Number:	Cutter Way
Minor Street Approach #1 Direction:	S-Bound
Minor Street Approach #2 Direction:	N-Bound

Number of Lanes for Moving Traffic on Each Minor Street Approach:	1	LANE(S)

TRAFFIC SIGNAL WARRANT ANALYSIS FINDINGS

	Applicable?	Warrant Met?
Warrant 1, Eight-Hour Vehicular Volume	Yes	No
Warrant 2, Four-Hour Vehicular Volume	Yes	No
Warrant 3, Peak Hour	Yes	No

VOLUME DATA PER HOUR INTERVAL, PER APPROACH

Time Interval		Major Street Approach #1 (E-Bound)	Major Street Approach #2 (W-Bound)	Major Street Combined	Minor Street Approach #1 (S-Bound)	Minor Street Approach #2 (N-Bound)
Begin At	End Of	Volume	Volume	Total Volume	Volume	Volume
8:00 AM	9:00 AM	570	581	1,241	63	1
10:00 AM	11:00 AM	372	498	870	34	0
4:00 PM	5:00 PM	864	488	1,352	54	0
8:00 PM	9:00 PM	226	208	434	24	1

MUTCD WARRANT 1, EIGHT-HOUR VEHICULAR VOLUME

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No

Combination of Conditions A and B Necessary?*: No

**Only applicable for Warrant 1 if after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems. See Section 4C.02 of the 2009 MUTCD for application.*

Condition A - Minimum Vehicular Volume

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor street approach (one direction only)			
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	500	400	350	280	150	120	105	84
2 or More	1	600	480	420	336	150	120	105	84
2 or More	2 or More	600	480	420	336	200	160	140	112
1	2 or More	500	400	350	280	200	160	140	112

Condition B - Interruption of Continuous Traffic

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor street approach (one direction only)			
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	750	600	525	420	75	60	53	42
2 or More	1	900	720	630	504	75	60	53	42
2 or More	2 or More	900	720	630	504	100	80	70	56
1	2 or More	750	600	525	420	100	80	70	56

Condition A Evaluation

Number of Unique Hours Met: 0 Condition A Satisfied? No

Condition B Evaluation

Number of Unique Hours Met: 0 Condition B Satisfied? No

Combination of Condition A and Condition B Evaluation

Number of Unique Hours Met for Condition A: N/A

Number of Unique Hours Met for Condition B: N/A

Combination of Condition A and Condition B Satisfied? N/A

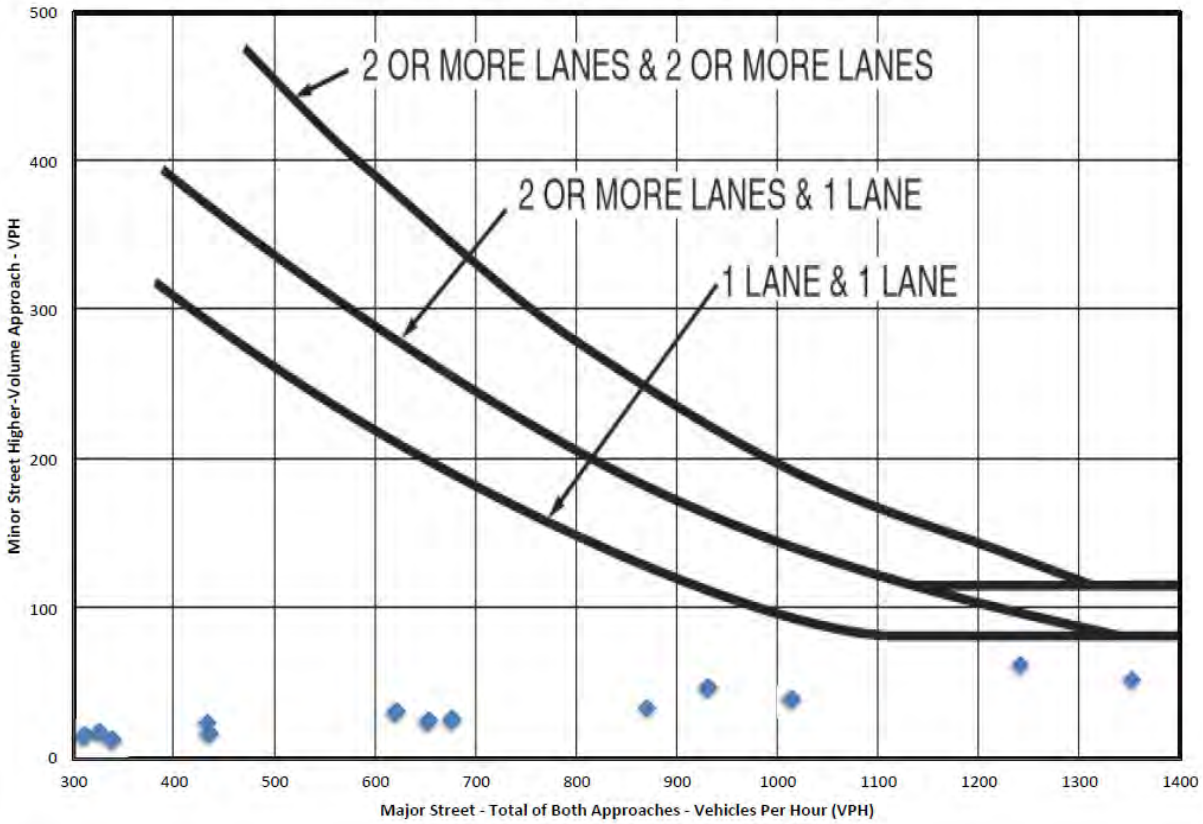
MUTCD WARRANT 2, FOUR-HOUR VEHICULAR VOLUME

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Total Number of Unique Hours Met On Figure 4C-1
0

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No

MUTCD Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

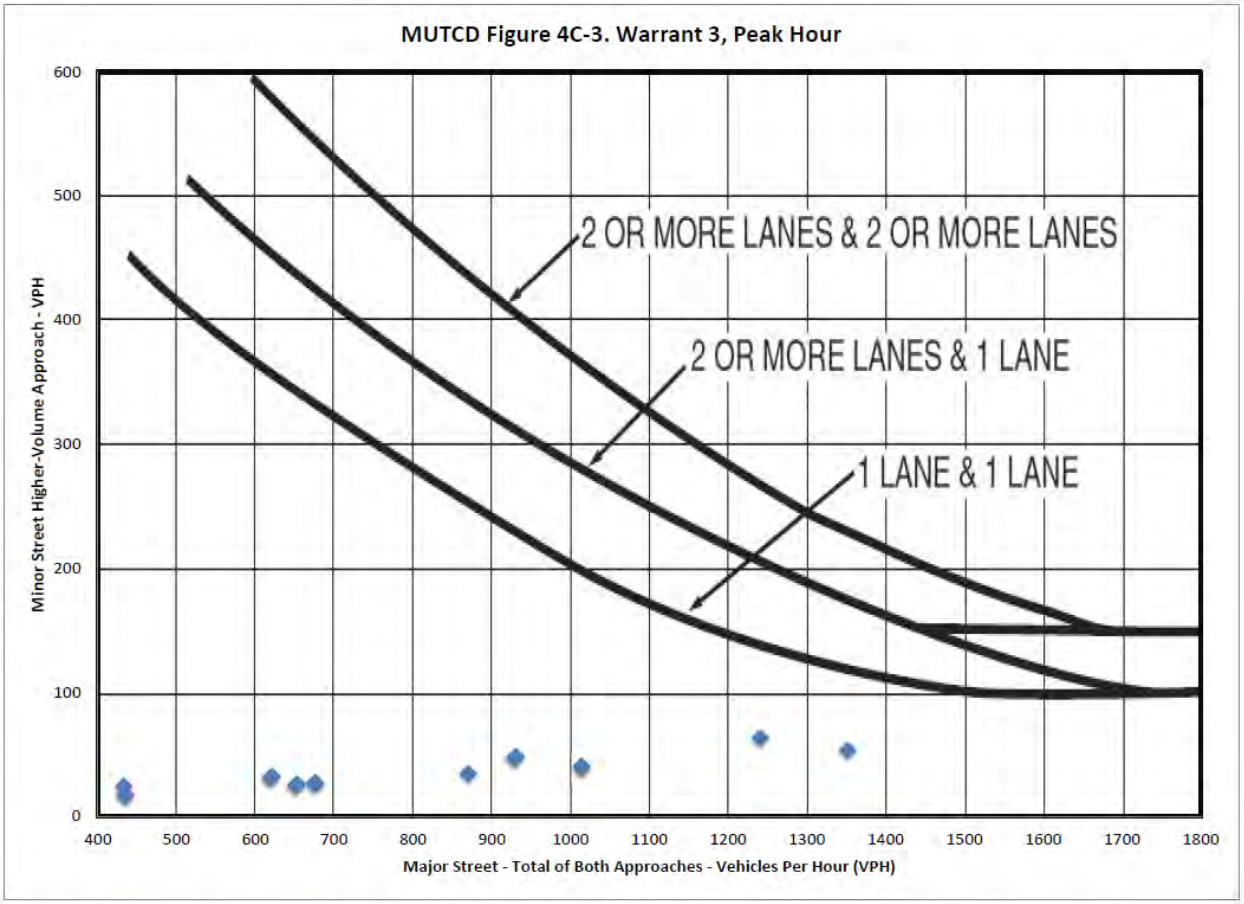


MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Total Number of Unique Hours Met On Figure 4C-3
0

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No



Traffic Signal Warrant Analysis Workbook

3/5/2021

STUDY AND ANALYSIS INFORMATION

Municipality:	Covina/West Covina	Analysis Date:	3/5/2021
County:		Conducted By:	NV5
PennDOT Engineering District:		Agency/Company Name:	NV5

Analysis Information

Data Collection Date:	2021 Build
Day of the Week:	Wednesday

Is the intersection in a built-up area of an isolated community of <10,000 population? No

Major Street Information

Major Street Name and Route Number:	San Bernardino Raod
Major Street Approach #1 Direction:	E-Bound
Major Street Approach #2 Direction:	W-Bound

Number of Lanes for Moving Traffic on Each Major Street Approach:	2	LANE(S)
Speed Limit or 85th Percentile Speed on the Major Street:	40	MPH

Minor Street Information

Minor Street Name and Route Number:	Driveway 6
Minor Street Approach #1 Direction:	S-Bound
Minor Street Approach #2 Direction:	N-Bound

Number of Lanes for Moving Traffic on Each Minor Street Approach:	1	LANE(S)

TRAFFIC SIGNAL WARRANT ANALYSIS FINDINGS

	Applicable?	Warrant Met?
Warrant 1, Eight-Hour Vehicular Volume	Yes	No
Warrant 2, Four-Hour Vehicular Volume	Yes	No
Warrant 3, Peak Hour	Yes	No

VOLUME DATA PER HOUR INTERVAL, PER APPROACH

Time Interval		Major Street Approach #1 (E-Bound)	Major Street Approach #2 (W-Bound)	Major Street Combined	Minor Street Approach #1 (S-Bound)	Minor Street Approach #2 (N-Bound)
Begin At	End Of	Volume	Volume	Total Volume	Volume	Volume
10:00 AM	11:00 AM	407	432	839		108
5:00 PM	6:00 PM	864	511	1,375		18

MUTCD WARRANT 1, EIGHT-HOUR VEHICULAR VOLUME

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No

Combination of Conditions A and B Necessary?*: No

**Only applicable for Warrant 1 if after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems. See Section 4C.02 of the 2009 MUTCD for application.*

Condition A - Minimum Vehicular Volume

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor street approach (one direction only)			
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	500	400	350	280	150	120	105	84
2 or More	1	600	480	420	336	150	120	105	84
2 or More	2 or More	600	480	420	336	200	160	140	112
1	2 or More	500	400	350	280	200	160	140	112

Condition B - Interruption of Continuous Traffic

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor street approach (one direction only)			
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	750	600	525	420	75	60	53	42
2 or More	1	900	720	630	504	75	60	53	42
2 or More	2 or More	900	720	630	504	100	80	70	56
1	2 or More	750	600	525	420	100	80	70	56

Condition A Evaluation

Number of Unique Hours Met: 0 Condition A Satisfied? No

Condition B Evaluation

Number of Unique Hours Met: 0 Condition B Satisfied? No

Combination of Condition A and Condition B Evaluation

Number of Unique Hours Met for Condition A: N/A

Number of Unique Hours Met for Condition B: N/A

Combination of Condition A and Condition B Satisfied? N/A

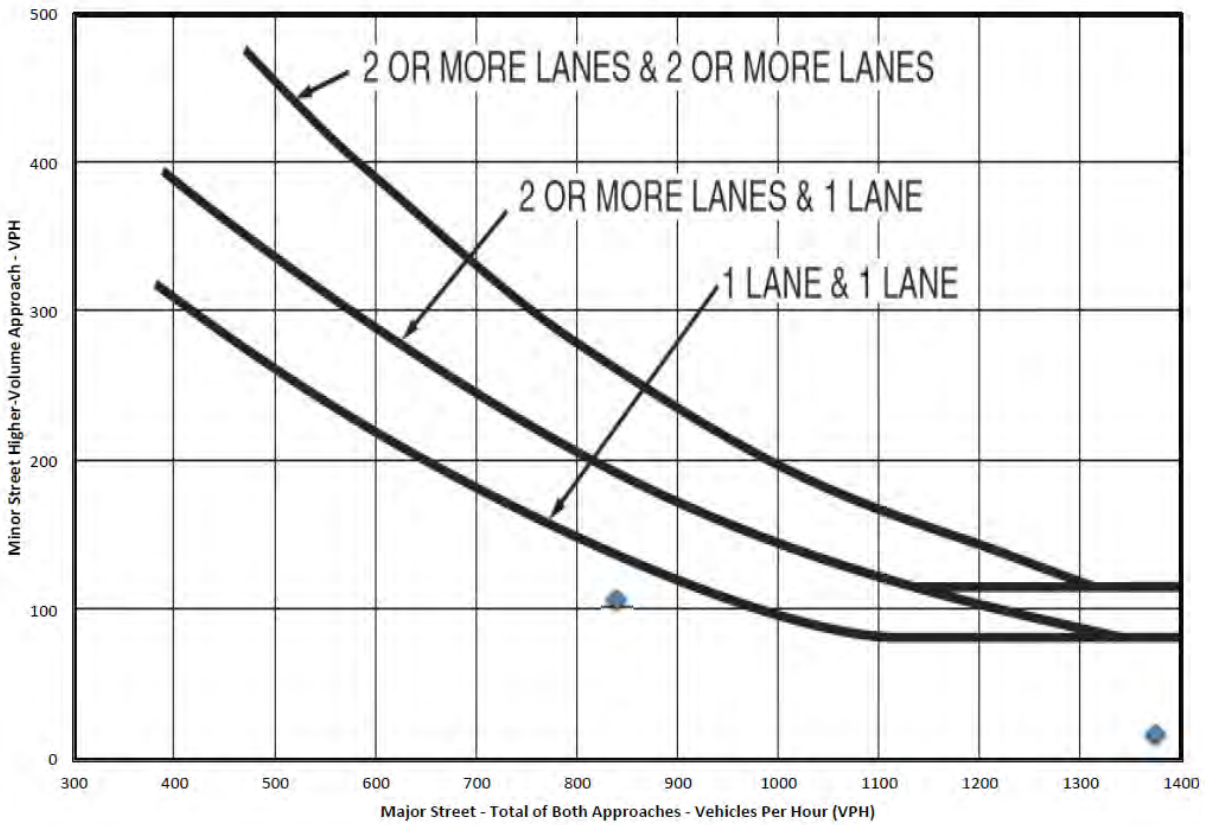
MUTCD WARRANT 2, FOUR-HOUR VEHICULAR VOLUME

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Total Number of Unique Hours Met On Figure 4C-1
0

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No

MUTCD Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

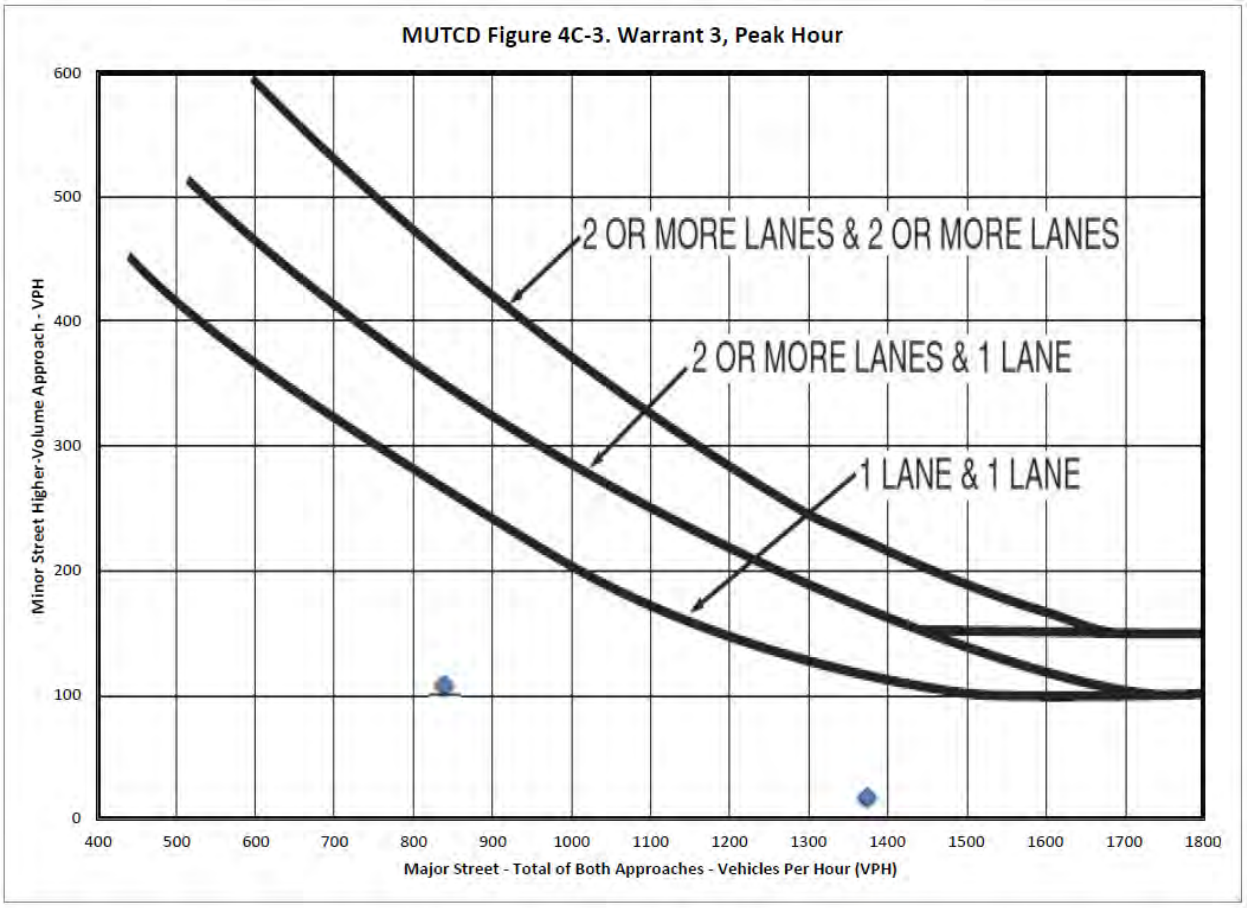


MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Total Number of Unique Hours Met On Figure 4C-3
0

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No



Appendix F – ICU Analyses

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: San Bernardino Road
Scenario: 2021 No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	98	0.061 *	90	0.056
NBT	2	3200	720	0.249	618	0.233 *
NBR	0	0	76	0.000	127	0.000
SBL	1	1600	87	0.054	99	0.062 *
SBT	2	3200	825	0.290 *	641	0.212
SBR	0	0	103	0.000	37	0.000
EBL	1	1600	55	0.034	114	0.071
EBT	2	3200	431	0.165 *	616	0.228 *
EBR	0	0	98	0.000	113	0.000
WBL	1	1600	173	0.108 *	117	0.073 *
WBT	2	3200	484	0.168	295	0.118
WBR	0	0	55	0.000	84	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.725		0.696
Level of Service:				C		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	52	0.033	39	0.024
NBT	2	3200	315	0.123 *	241	0.089 *
NBR	0	0	79	0.000	43	0.000
SBL	1	1600	70	0.044 *	41	0.026 *
SBT	2	3200	347	0.126	212	0.078
SBR	0	0	56	0.000	37	0.000
EBL	1	1600	34	0.021	32	0.020
EBT	2	3200	273	0.098 *	118	0.046 *
EBR	0	0	39	0.000	29	0.000
WBL	1	1600	109	0.068 *	46	0.029 *
WBT	2	3200	246	0.097	122	0.048
WBR	0	0	65	0.000	32	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.433		0.289
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: San Bernardino Road
Scenario: 2021 No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	86	0.054	86	0.054
NBT	2	3200	635	0.228 *	616	0.227 *
NBR		0	94	0.000	111	0.000
SBL	1	1600	94	0.059 *	102	0.064 *
SBT	2	3200	599	0.220	489	0.174
SBR		0	104	0.000	69	0.000
EBL	1	1600	74	0.046	88	0.055
EBT	2	3200	491	0.183 *	608	0.232 *
EBR	0	0	94	0.000	135	0.000
WBL	1	1600	75	0.047 *	100	0.063 *
WBT	2	3200	490	0.178	386	0.158
WBR	0	0	78	0.000	119	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.616		0.686
Level of Service:				B		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	51	0.032	35	0.022
NBT	2	3200	310	0.125 *	224	0.083 *
NBR	0	0	90	0.000	42	0.000
SBL	1	1600	88	0.055 *	42	0.026 *
SBT	2	3200	266	0.099	175	0.063
SBR	0	0	51	0.000	25	0.000
EBL	1	1600	47	0.029	27	0.017 *
EBT	2	3200	335	0.119 *	137	0.053
EBR	0	0	45	0.000	34	0.000
WBL	1	1600	66	0.041 *	38	0.024
WBT	2	3200	330	0.128	166	0.069 *
WBR	0	0	80	0.000	56	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.440		0.296
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Rimsdale Avenue
E/W Street: San Bernardino Road
Scenario: 2021 No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0	89	0.000	95	0.000
NBT	1	1600	48	0.126 *	67	0.180 *
NBR		0	64	0.000	126	0.000
SBL	1	1600	142	0.089 *	128	0.080 *
SBT	1	1600	55	0.070	66	0.084
SBR		0	57	0.000	69	0.000
EBL	1	1600	62	0.039	100	0.063
EBT	2	3200	560	0.206 *	701	0.251 *
EBR	0	0	98	0.000	103	0.000
WBL	1	1600	57	0.036 *	62	0.039 *
WBT	2	3200	483	0.179	529	0.191
WBR	0	0	89	0.000	81	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.556		0.650
Level of Service:				A		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	0	0	78	0.000	36	0.000
NBT	1	1600	57	0.133 *	6	0.043 *
NBR	0	0	78	0.000	27	0.000
SBL	1	1600	123	0.077 *	23	0.014 *
SBT	1	1600	53	0.069	5	0.008
SBR	0	0	58	0.000	8	0.000
EBL	1	1600	74	0.046 *	13	0.008
EBT	2	3200	340	0.133	221	0.081 *
EBR	0	0	85	0.000	37	0.000
WBL	1	1600	41	0.026	19	0.012 *
WBT	2	3200	339	0.141 *	231	0.077
WBR	0	0	112	0.000	15	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.497		0.250
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: San Bernardino Road
Scenario: 2021 No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	185	0.116 *	136	0.085
NBT	2	3200	853	0.305	907	0.318 *
NBR		0	123	0.000	112	0.000
SBL	1	1600	98	0.061	162	0.101 *
SBT	2	3200	955	0.341 *	921	0.310
SBR		0	137	0.000	70	0.000
EBL	1	1600	197	0.123	203	0.127
EBT	2	3200	418	0.180 *	565	0.225 *
EBR		0	158	0.000	154	0.000
WBL	1	1600	181	0.113 *	140	0.088 *
WBT	2	3200	408	0.153	322	0.128
WBR		0	82	0.000	86	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.850		0.832
Level of Service:				D		D

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	140	0.088 *	95	0.059 *
NBT	2	3200	591	0.201	442	0.147
NBR	0	0	52	0.000	29	0.000
SBL	1	1600	89	0.056	76	0.048
SBT	2	3200	656	0.241 *	423	0.153 *
SBR	0	0	114	0.000	67	0.000
EBL	1	1600	144	0.090 *	6	0.004
EBT	2	3200	283	0.121	109	0.052 *
EBR	0	0	105	0.000	56	0.000
WBL	1	1600	100	0.063	52	0.033 *
WBT	2	3200	286	0.109 *	96	0.039
WBR	0	0	62	0.000	29	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.627		0.397
Level of Service:				B		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: Badillo Street
Scenario: 2021 No Build

Jurisdiction: West Covina/C West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	64	0.040 *	67	0.042 *
NBT	2	3200	906	0.283	712	0.223
NBR	1	1600	176	0.110	214	0.134
SBL	1	1600	52	0.033	56	0.035
SBT	2	3200	1005	0.314 *	766	0.239 *
SBR	1	1600	92	0.058	77	0.048
EBL	1	1600	51	0.032	67	0.042
EBT	2	3200	521	0.163 *	888	0.278 *
EBR	1	1600	107	0.067	159	0.099
WBL	1	1600	137	0.086 *	138	0.086 *
WBT	2	3200	539	0.168	413	0.129
WBR	1	1600	96	0.060	84	0.053
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.703		0.745
Level of Service:				C		C

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	25	0.016 *	37	0.023 *
NBT	2	3200	366	0.114	288	0.090
NBR	1	1600	103	0.064	57	0.036
SBL	1	1600	35	0.022	28	0.018
SBT	2	3200	432	0.135 *	270	0.084 *
SBR	1	1600	30	0.019	37	0.023
EBL	1	1600	32	0.020	23	0.014
EBT	2	3200	306	0.096 *	172	0.054 *
EBR	1	1600	71	0.044	43	0.027
WBL	1	1600	93	0.058 *	37	0.023 *
WBT	2	3200	276	0.086	180	0.056
WBR	1	1600	55	0.034	17	0.011
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.404		0.284
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: Badillo Street
Scenario: 2021 No Build

Jurisdiction: West Covina/Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	94	0.059 *	53	0.033
NBT	2	3200	657	0.205	658	0.206 *
NBR	1	1600	126	0.079	112	0.070
SBL	1	1600	49	0.031	72	0.045 *
SBT	2	3200	663	0.234 *	614	0.208
SBR		0	85	0.000	51	0.000
EBL	1	1600	84	0.053	99	0.062
EBT	2	3200	649	0.203 *	968	0.303 *
EBR	1	1600	48	0.030	76	0.048
WBL	1	1600	121	0.076 *	159	0.099 *
WBT	2	3200	608	0.190	520	0.163
WBR	1	1600	103	0.064	72	0.045
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.671		0.753
Level of Service:				B		C

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	38	0.024	19	0.012
NBT	2	3200	352	0.110 *	232	0.073 *
NBR	1	1600	70	0.044	18	0.011
SBL	1	1600	35	0.022 *	26	0.016 *
SBT	2	3200	308	0.108	201	0.070
SBR	0	0	37	0.000	22	0.000
EBL	1	1600	42	0.026	34	0.021 *
EBT	2	3200	367	0.115 *	193	0.060
EBR	1	1600	23	0.014	20	0.013
WBL	1	1600	97	0.061 *	33	0.021
WBT	2	3200	332	0.104	200	0.063 *
WBR	1	1600	57	0.036	35	0.022
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.407		0.273
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Rimsdale Avenue
E/W Street: Badillo Street
Scenario: 2021 No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0		0.000 *		0.000 *
NBT		0		0.000		0.000
NBR		0		0.000		0.000
SBL		0	71	0.000	64	0.000
SBT	1	1600		0.109 *		0.108 *
SBR		0	103	0.000	108	0.000
EBL	1	1600	130	0.081 *	127	0.079
EBT	2	3200	803	0.251	1032	0.323 *
EBR		0		0.000		0.000
WBL		0		0.000		0.000 *
WBT	2	3200	754	0.236 *	644	0.201
WBR	1	1600	78	0.049	90	0.056
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.526		0.530
Level of Service:				A		A

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	0	0		0.000 *		0.000 *
NBT	0	0		0.000		0.000
NBR	0	0		0.000		0.000
SBL	0	0	70	0.000	20	0.000
SBT	1	1600		0.081 *		0.038 *
SBR	0	0	60	0.000	41	0.000
EBL	1	1600	106	0.066 *	33	0.021 *
EBT	2	3200	442	0.138	236	0.074
EBR	0	0		0.000		0.000
WBL	0	0		0.000		0.000
WBT	2	3200	383	0.120 *	269	0.084 *
WBR	1	1600	80	0.050	22	0.014
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.367		0.243
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: Badillo Street
Scenario: 2021 No Build

Jurisdiction: West Covina/Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	284	0.178 *	157	0.098 *
NBT	2	3200	955	0.354	916	0.323
NBR		0	178	0.000	119	0.000
SBL	1	1600	144	0.090	127	0.079
SBT	2	3200	1061	0.332 *	991	0.310 *
SBR	1	1600	139	0.087	99	0.062
EBL	1	1600	89	0.056	144	0.090
EBT	2	3200	579	0.181 *	794	0.248 *
EBR	1	1600	151	0.094	200	0.125
WBL	1	1600	194	0.121 *	210	0.131 *
WBT	2	3200	489	0.153	514	0.161
WBR	1	1600	64	0.040	86	0.054
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.911		0.887
Level of Service:				E		D

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	142	0.089	88	0.055
NBT	2	3200	693	0.255 *	478	0.168 *
NBR	0	0	123	0.000	60	0.000
SBL	1	1600	112	0.070 *	57	0.036 *
SBT	2	3200	686	0.214	432	0.135
SBR	1	1600	72	0.045	39	0.024
EBL	1	1600	51	0.032	33	0.021
EBT	2	3200	320	0.100 *	167	0.052 *
EBR	1	1600	104	0.065	62	0.039
WBL	1	1600	142	0.089 *	95	0.059 *
WBT	2	3200	320	0.100	194	0.061
WBR	1	1600	52	0.033	31	0.019
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.614		0.415
Level of Service:				B		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	98	0.061 *	90	0.056
NBT	2	3200	720	0.249	618	0.233 *
NBR	0	0	76	0.000	127	0.000
SBL	1	1600	87	0.054	99	0.062 *
SBT	2	3200	825	0.290 *	641	0.212
SBR	0	0	103	0.000	37	0.000
EBL	1	1600	55	0.034	114	0.071
EBT	2	3200	431	0.165 *	623	0.230 *
EBR	0	0	98	0.000	113	0.000
WBL	1	1600	173	0.108 *	120	0.075 *
WBT	2	3200	484	0.168	303	0.121
WBR	0	0	55	0.000	84	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.725		0.700
Level of Service:				C		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	52	0.033	39	0.024
NBT	2	3200	315	0.123 *	245	0.090 *
NBR	0	0	79	0.000	43	0.000
SBL	1	1600	70	0.044 *	41	0.026 *
SBT	2	3200	351	0.127	212	0.078
SBR	0	0	56	0.000	37	0.000
EBL	1	1600	34	0.021	32	0.020
EBT	2	3200	273	0.098 *	130	0.050 *
EBR	0	0	39	0.000	29	0.000
WBL	1	1600	124	0.078 *	46	0.029 *
WBT	2	3200	296	0.113	122	0.048
WBR	0	0	65	0.000	32	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.442		0.294
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	86	0.054	86	0.054
NBT	2	3200	635	0.228 *	616	0.227 *
NBR		0	94	0.000	111	0.000
SBL	1	1600	94	0.059 *	102	0.064 *
SBT	2	3200	599	0.220	489	0.174
SBR		0	104	0.000	69	0.000
EBL	1	1600	74	0.046	88	0.055
EBT	2	3200	492	0.183 *	615	0.234 *
EBR	0	0	94	0.000	135	0.000
WBL	1	1600	75	0.047 *	100	0.063 *
WBT	2	3200	491	0.178	387	0.158
WBR	0	0	78	0.000	119	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.617		0.688
Level of Service:				B		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	51	0.032	35	0.022
NBT	2	3200	310	0.125 *	241	0.088 *
NBR	0	0	90	0.000	42	0.000
SBL	1	1600	88	0.055 *	42	0.026 *
SBT	2	3200	281	0.104	175	0.063
SBR	0	0	51	0.000	25	0.000
EBL	1	1600	47	0.029	27	0.017 *
EBT	2	3200	378	0.132 *	138	0.054
EBR	0	0	45	0.000	34	0.000
WBL	1	1600	66	0.041 *	38	0.024
WBT	2	3200	331	0.128	167	0.070 *
WBR	0	0	80	0.000	56	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.453		0.301
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	San Bernardino Road	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0	89	0.000	95	0.000
NBT	1	1600	48	0.126 *	67	0.180 *
NBR		0	64	0.000	126	0.000
SBL	1	1600	142	0.089 *	128	0.080 *
SBT	1	1600	55	0.070	66	0.084
SBR		0	57	0.000	69	0.000
EBL	1	1600	62	0.039	100	0.063
EBT	2	3200	561	0.206 *	708	0.253 *
EBR	0	0	98	0.000	103	0.000
WBL	1	1600	57	0.036 *	62	0.039 *
WBT	2	3200	484	0.179	530	0.191
WBR	0	0	89	0.000	81	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.556		0.652
Level of Service:				A		B

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	0	0	78	0.000	36	0.000
NBT	1	1600	57	0.133 *	6	0.043 *
NBR	0	0	78	0.000	27	0.000
SBL	1	1600	123	0.077 *	23	0.014 *
SBT	1	1600	53	0.069	5	0.008
SBR	0	0	58	0.000	8	0.000
EBL	1	1600	74	0.046 *	13	0.008
EBT	2	3200	383	0.146	222	0.081 *
EBR	0	0	85	0.000	37	0.000
WBL	1	1600	41	0.026	19	0.012 *
WBT	2	3200	340	0.141 *	232	0.077
WBR	0	0	112	0.000	15	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.498		0.250
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	186	0.116 *	137	0.086
NBT	2	3200	853	0.305	907	0.318 *
NBR		0	123	0.000	112	0.000
SBL	1	1600	98	0.061	162	0.101 *
SBT	2	3200	955	0.341 *	930	0.313
SBR		0	137	0.000	70	0.000
EBL	1	1600	197	0.123	207	0.129
EBT	2	3200	418	0.180 *	567	0.226 *
EBR		0	159	0.000	155	0.000
WBL	1	1600	181	0.113 *	145	0.091 *
WBT	2	3200	408	0.153	322	0.128
WBR		0	82	0.000	86	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.851		0.836
Level of Service:				D		D

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	141	0.088 *	96	0.060 *
NBT	2	3200	591	0.201	442	0.147
NBR	0	0	52	0.000	29	0.000
SBL	1	1600	89	0.056	76	0.048
SBT	2	3200	656	0.241 *	440	0.158 *
SBR	0	0	114	0.000	67	0.000
EBL	1	1600	167	0.104 *	61	0.038
EBT	2	3200	295	0.128	109	0.052 *
EBR	0	0	114	0.000	57	0.000
WBL	1	1600	100	0.063	61	0.038 *
WBT	2	3200	268	0.103 *	96	0.039
WBR	0	0	62	0.000	29	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.636		0.408
Level of Service:				B		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: Badillo Street
Scenario: 2021 Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	64	0.040 *	67	0.042 *
NBT	2	3200	906	0.283	712	0.223
NBR	1	1600	176	0.110	220	0.138
SBL	1	1600	52	0.033	56	0.035
SBT	2	3200	1005	0.314 *	769	0.240 *
SBR	1	1600	92	0.058	77	0.048
EBL	1	1600	51	0.032	67	0.042
EBT	2	3200	521	0.163 *	902	0.282 *
EBR	1	1600	107	0.067	159	0.099
WBL	1	1600	137	0.086 *	138	0.086 *
WBT	2	3200	539	0.168	413	0.129
WBR	1	1600	96	0.060	84	0.053
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.703		0.750
Level of Service:				C		C

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	25	0.016 *	37	0.023
NBT	2	3200	366	0.114	288	0.090
NBR	1	1600	112	0.070	68	0.043
SBL	1	1600	39	0.024	28	0.018
SBT	2	3200	447	0.140 *	270	0.084
SBR	1	1600	30	0.019	37	0.023
EBL	1	1600	32	0.020	23	0.014
EBT	2	3200	337	0.105 *	197	0.062 *
EBR	1	1600	71	0.044	43	0.027
WBL	1	1600	93	0.058 *	47	0.029 *
WBT	2	3200	276	0.086	214	0.067
WBR	1	1600	55	0.034	21	0.013
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.419		0.298
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: Badillo Street
Scenario: 2021 Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	94	0.059 *	53	0.033
NBT	2	3200	657	0.205	658	0.206 *
NBR	1	1600	126	0.079	112	0.070
SBL	1	1600	49	0.031	72	0.045 *
SBT	2	3200	663	0.234 *	614	0.208
SBR		0	85	0.000	51	0.000
EBL	1	1600	84	0.053	99	0.062
EBT	2	3200	649	0.203 *	968	0.303 *
EBR	1	1600	48	0.030	76	0.048
WBL	1	1600	121	0.076 *	159	0.099 *
WBT	2	3200	608	0.190	538	0.168
WBR	1	1600	103	0.064	72	0.045
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.671		0.753
Level of Service:				B		C

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	44	0.028 *	19	0.012
NBT	2	3200	352	0.110	232	0.073 *
NBR	1	1600	70	0.044	18	0.011
SBL	1	1600	35	0.022	26	0.016 *
SBT	2	3200	308	0.113 *	201	0.070
SBR	0	0	52	0.000	22	0.000
EBL	1	1600	45	0.028	51	0.032 *
EBT	2	3200	367	0.115 *	202	0.063
EBR	1	1600	23	0.014	26	0.016
WBL	1	1600	97	0.061 *	33	0.021
WBT	2	3200	340	0.106	232	0.073 *
WBR	1	1600	57	0.036	35	0.022
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.415		0.293
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0		0.000 *		0.000 *
NBT		0		0.000		0.000
NBR		0		0.000		0.000
SBL		0	71	0.000	64	0.000
SBT	1	1600		0.109 *		0.108 *
SBR		0	103	0.000	108	0.000
EBL	1	1600	130	0.081 *	127	0.079
EBT	2	3200	803	0.251	1032	0.323 *
EBR		0		0.000		0.000
WBL		0		0.000		0.000 *
WBT	2	3200	754	0.236 *	662	0.207
WBR	1	1600	78	0.049	90	0.056
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.526		0.530
Level of Service:				A		A

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	0	0		0.000 *		0.000 *
NBT	0	0		0.000		0.000
NBR	0	0		0.000		0.000
SBL	0	0	70	0.000	20	0.000
SBT	1	1600		0.081 *		0.038 *
SBR	0	0	60	0.000	41	0.000
EBL	1	1600	106	0.066 *	33	0.021 *
EBT	2	3200	442	0.138	245	0.077
EBR	0	0		0.000		0.000
WBL	0	0		0.000		0.000
WBT	2	3200	391	0.122 *	301	0.094 *
WBR	1	1600	80	0.050	22	0.014
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.370		0.253
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: Badillo Street
Scenario: 2021 Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	284	0.178 *	161	0.101 *
NBT	2	3200	956	0.354	917	0.324
NBR		0	178	0.000	119	0.000
SBL	1	1600	144	0.090	127	0.079
SBT	2	3200	1062	0.332 *	992	0.310 *
SBR	1	1600	139	0.087	113	0.071
EBL	1	1600	89	0.056	144	0.090
EBT	2	3200	579	0.181 *	794	0.248 *
EBR	1	1600	151	0.094	200	0.125
WBL	1	1600	194	0.121 *	210	0.131 *
WBT	2	3200	489	0.153	514	0.161
WBR	1	1600	64	0.040	86	0.054
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.912		0.890
Level of Service:				E		D

* indicates critical movements

Traffic Movement	Number of Lanes	Capacity	Generator AM Peak Hour		Generator PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	142	0.089	94	0.059
NBT	2	3200	694	0.255 *	479	0.168 *
NBR	0	0	123	0.000	60	0.000
SBL	1	1600	112	0.070 *	57	0.036 *
SBT	2	3200	695	0.217	433	0.135
SBR	1	1600	72	0.045	65	0.041
EBL	1	1600	51	0.032	33	0.021
EBT	2	3200	320	0.100 *	176	0.055 *
EBR	1	1600	104	0.065	62	0.039
WBL	1	1600	142	0.089 *	95	0.059 *
WBT	2	3200	328	0.103	194	0.061
WBR	1	1600	52	0.033	31	0.019
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.614		0.418
Level of Service:				B		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Cumulative No Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	120	0.075 *	116	0.073
NBT	2	3200	750	0.258	666	0.248 *
NBR	0	0	76	0.000	127	0.000
SBL	1	1600	110	0.069	126	0.079 *
SBT	2	3200	847	0.297 *	654	0.216
SBR	0	0	103	0.000	37	0.000
EBL	1	1600	55	0.034	114	0.071
EBT	2	3200	464	0.176 *	689	0.251 *
EBR	0	0	98	0.000	113	0.000
WBL	1	1600	173	0.108 *	117	0.073 *
WBT	2	3200	534	0.184	334	0.131
WBR	0	0	55	0.000	84	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.756		0.750
Level of Service:				C		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Cumulative No Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	93	0.058	90	0.056
NBT	2	3200	635	0.232 *	619	0.231 *
NBR		0	106	0.000	121	0.000
SBL	1	1600	102	0.064 *	109	0.068 *
SBT	2	3200	599	0.220	489	0.174
SBR		0	104	0.000	69	0.000
EBL	1	1600	74	0.046	88	0.055
EBT	2	3200	523	0.193 *	680	0.255 *
EBR	0	0	94	0.000	135	0.000
WBL	1	1600	75	0.047 *	100	0.063 *
WBT	2	3200	539	0.193	428	0.171
WBR	0	0	78	0.000	119	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.635		0.717
Level of Service:				B		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	San Bernardino Road	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative No Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0	89	0.000	95	0.000
NBT	1	1600	48	0.135 *	67	0.186 *
NBR		0	79	0.000	135	0.000
SBL	1	1600	142	0.089 *	128	0.080 *
SBT	1	1600	55	0.070	66	0.084
SBR		0	57	0.000	69	0.000
EBL	1	1600	62	0.039	100	0.063
EBT	2	3200	592	0.216 *	772	0.273 *
EBR	0	0	98	0.000	103	0.000
WBL	1	1600	69	0.043 *	72	0.045 *
WBT	2	3200	532	0.194	571	0.204
WBR	0	0	89	0.000	81	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.583		0.684
Level of Service:				A		B

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Azusa Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	San Bernardino Road	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative No Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	186	0.116 *	137	0.086
NBT	2	3200	890	0.317	930	0.326 *
NBR		0	123	0.000	112	0.000
SBL	1	1600	98	0.061	153	0.096 *
SBT	2	3200	963	0.344 *	963	0.322
SBR		0	137	0.000	66	0.000
EBL	1	1600	197	0.123	205	0.128
EBT	2	3200	456	0.195 *	642	0.249 *
EBR		0	168	0.000	156	0.000
WBL	1	1600	181	0.113 *	145	0.091 *
WBT	2	3200	460	0.169	365	0.141
WBR		0	82	0.000	86	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.868		0.861
Level of Service:				D		D

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Vincent Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative No Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	64	0.040 *	67	0.042 *
NBT	2	3200	936	0.293	761	0.238
NBR	1	1600	176	0.110	214	0.134
SBL	1	1600	52	0.033	56	0.035
SBT	2	3200	1049	0.328 *	805	0.252 *
SBR	1	1600	92	0.058	77	0.048
EBL	1	1600	51	0.032	67	0.042
EBT	2	3200	536	0.168 *	904	0.283 *
EBR	1	1600	107	0.067	159	0.099
WBL	1	1600	137	0.086 *	138	0.086 *
WBT	2	3200	547	0.171	427	0.133
WBR	1	1600	96	0.060	84	0.053
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.721		0.762
Level of Service:				C		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Lark Ellen Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative No Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	94	0.059 *	53	0.033
NBT	2	3200	664	0.208	664	0.208 *
NBR	1	1600	126	0.079	112	0.070
SBL	1	1600	49	0.031	72	0.045 *
SBT	2	3200	663	0.234 *	614	0.208
SBR		0	85	0.000	51	0.000
EBL	1	1600	89	0.056	103	0.064
EBT	2	3200	659	0.206 *	980	0.306 *
EBR	1	1600	48	0.030	76	0.048
WBL	1	1600	130	0.081 *	165	0.103 *
WBT	2	3200	622	0.194	538	0.168
WBR	1	1600	110	0.069	76	0.048
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.680		0.762
Level of Service:				B		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative No Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0		0.000 *		0.000 *
NBT		0		0.000		0.000
NBR		0		0.000		0.000
SBL		0	92	0.000	78	0.000
SBT	1	1600		0.122 *		0.116 *
SBR		0	103	0.000	108	0.000
EBL	1	1600	130	0.081 *	127	0.079
EBT	2	3200	817	0.255	1041	0.325 *
EBR		0		0.000		0.000
WBL		0		0.000		0.000 *
WBT	2	3200	763	0.238 *	665	0.208
WBR	1	1600	90	0.056	100	0.063
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.542		0.542
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: Badillo Street
Scenario: 2021 Cumulative No Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	294	0.184 *	169	0.106 *
NBT	2	3200	992	0.310	939	0.293
NBR		0	178	0.000	119	0.000
SBL	1	1600	144	0.090	127	0.079
SBT	2	3200	1076	0.336 *	1024	0.320 *
SBR	1	1600	139	0.087	113	0.071
EBL	1	1600	89	0.056	144	0.090
EBT	2	3200	602	0.188 *	809	0.253 *
EBR	1	1600	163	0.102	208	0.130
WBL	1	1600	194	0.121 *	210	0.131 *
WBT	2	3200	501	0.157	537	0.168
WBR	1	1600	64	0.040	86	0.054
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.929		0.910
Level of Service:				E		E

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Vincent Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Cumulative Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	120	0.075 *	116	0.073
NBT	2	3200	750	0.258	666	0.248 *
NBR	0	0	76	0.000	127	0.000
SBL	1	1600	110	0.069	126	0.079 *
SBT	2	3200	847	0.297 *	654	0.216
SBR	0	0	103	0.000	37	0.000
EBL	1	1600	55	0.034	114	0.071
EBT	2	3200	464	0.176 *	696	0.253 *
EBR	0	0	98	0.000	113	0.000
WBL	1	1600	173	0.108 *	120	0.075 *
WBT	2	3200	534	0.184	342	0.133
WBR	0	0	55	0.000	84	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.756		0.754
Level of Service:				C		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Lark Ellen Avenue
E/W Street: San Bernardino Road
Scenario: 2021 Cumulative Build

Jurisdiction: Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	93	0.058	90	0.056
NBT	2	3200	635	0.232 *	619	0.231 *
NBR		0	106	0.000	121	0.000
SBL	1	1600	102	0.064 *	109	0.068 *
SBT	2	3200	599	0.220	489	0.174
SBR		0	104	0.000	69	0.000
EBL	1	1600	74	0.046	88	0.055
EBT	2	3200	524	0.193 *	687	0.257 *
EBR	0	0	94	0.000	135	0.000
WBL	1	1600	75	0.047 *	100	0.063 *
WBT	2	3200	540	0.193	429	0.171
WBR	0	0	78	0.000	119	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.635		0.719
Level of Service:				B		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	San Bernardino Road	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0	89	0.000	95	0.000
NBT	1	1600	48	0.135 *	67	0.186 *
NBR		0	79	0.000	135	0.000
SBL	1	1600	142	0.089 *	128	0.080 *
SBT	1	1600	55	0.070	66	0.084
SBR		0	57	0.000	69	0.000
EBL	1	1600	62	0.039	100	0.063
EBT	2	3200	593	0.216 *	779	0.276 *
EBR	0	0	98	0.000	103	0.000
WBL	1	1600	69	0.043 *	72	0.045 *
WBT	2	3200	533	0.194	572	0.204
WBR	0	0	89	0.000	81	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.583		0.686
Level of Service:				A		B

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Azusa Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	San Bernardino Road	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	186	0.116 *	137	0.086
NBT	2	3200	890	0.317	930	0.326 *
NBR		0	123	0.000	112	0.000
SBL	1	1600	98	0.061	162	0.101 *
SBT	2	3200	963	0.344 *	963	0.323
SBR		0	137	0.000	70	0.000
EBL	1	1600	197	0.123	207	0.129
EBT	2	3200	457	0.195 *	643	0.251 *
EBR		0	168	0.000	161	0.000
WBL	1	1600	181	0.113 *	145	0.091 *
WBT	2	3200	460	0.169	365	0.141
WBR		0	82	0.000	86	0.000
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.868		0.869
Level of Service:				D		D

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Vincent Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	64	0.040 *	67	0.042 *
NBT	2	3200	936	0.293	761	0.238
NBR	1	1600	176	0.110	220	0.138
SBL	1	1600	52	0.033	56	0.035
SBT	2	3200	1049	0.328 *	808	0.253 *
SBR	1	1600	92	0.058	77	0.048
EBL	1	1600	51	0.032	67	0.042
EBT	2	3200	536	0.168 *	918	0.287 *
EBR	1	1600	107	0.067	159	0.099
WBL	1	1600	137	0.086 *	138	0.086 *
WBT	2	3200	547	0.171	427	0.133
WBR	1	1600	96	0.060	84	0.053
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.721		0.768
Level of Service:				C		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Lark Ellen Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	94	0.059 *	53	0.033
NBT	2	3200	664	0.208	664	0.208 *
NBR	1	1600	126	0.079	112	0.070
SBL	1	1600	49	0.031	72	0.045 *
SBT	2	3200	663	0.234 *	614	0.208
SBR		0	85	0.000	51	0.000
EBL	1	1600	89	0.056	103	0.064
EBT	2	3200	659	0.206 *	980	0.306 *
EBR	1	1600	48	0.030	76	0.048
WBL	1	1600	130	0.081 *	165	0.103 *
WBT	2	3200	622	0.194	556	0.174
WBR	1	1600	110	0.069	76	0.048
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.680		0.762
Level of Service:				B		C

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project:	DAX9 Delivery Station	Jurisdiction:	West Covina
N/S Street:	Rimsdale Avenue	Single Turn Lane Capacity:	1,600
E/W Street:	Badillo Street	Dual Turn Lanes Capacity:	3,240
Scenario:	2021 Cumulative Build	Through Lane per lane Capacity:	1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL		0		0.000 *		0.000 *
NBT		0		0.000		0.000
NBR		0		0.000		0.000
SBL		0	92	0.000	78	0.000
SBT	1	1600		0.122 *		0.116 *
SBR		0	103	0.000	108	0.000
EBL	1	1600	130	0.081 *	127	0.079
EBT	2	3200	817	0.255	1041	0.325 *
EBR		0		0.000		0.000
WBL		0		0.000		0.000 *
WBT	2	3200	763	0.238 *	683	0.213
WBR	1	1600	90	0.056	100	0.063
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.542		0.542
Level of Service:				A		A

* indicates critical movements

SIGNALIZED INTERSECTION CAPACITY UTILIZATION WORKSHEET

Project: DAX9 Delivery Station
N/S Street: Azusa Avenue
E/W Street: Badillo Street
Scenario: 2021 Cumulative Build

Jurisdiction: West Covina
Single Turn Lane Capacity: 1,600
Dual Turn Lanes Capacity: 3,240
Through Lane per lane Capacity: 1,600

Traffic Movement	Number of Lanes	Capacity	Adjacent Street AM Peak Hour		Adjacent Street PM Peak Hour Street	
			Volume	V/C	Volume	V/C
NBL	1	1600	294	0.184 *	169	0.106 *
NBT	2	3200	993	0.366	940	0.331
NBR		0	178	0.000	119	0.000
SBL	1	1600	144	0.090	127	0.079
SBT	2	3200	1077	0.337 *	1025	0.320 *
SBR	1	1600	139	0.087	113	0.071
EBL	1	1600	89	0.056	144	0.090
EBT	2	3200	602	0.188 *	809	0.253 *
EBR	1	1600	163	0.102	208	0.130
WBL	1	1600	194	0.121 *	210	0.131 *
WBT	2	3200	501	0.157	537	0.168
WBR	1	1600	64	0.040	86	0.054
Clearance Interval/Lost Time:				0.100 *		0.100 *
Total Intersection Capacity Utilization:				0.930		0.910
Level of Service:				E		E

* indicates critical movements

Appendix G – HCM Analyses

HCM 6th TWSC
2: Driveway 7/Cutter Way & San Bernardino Rd

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	567	0	0	670	30	0	0	0	47	0	16
Future Vol, veh/h	23	567	0	0	670	30	0	0	0	47	0	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	597	0	0	705	32	0	0	0	49	0	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	737	0	0	597	0	0	998	1382	299	1068	1366	369
Stage 1	-	-	-	-	-	-	645	645	-	721	721	-
Stage 2	-	-	-	-	-	-	353	737	-	347	645	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	865	-	-	976	-	-	198	143	697	176	146	628
Stage 1	-	-	-	-	-	-	427	466	-	385	430	-
Stage 2	-	-	-	-	-	-	637	423	-	642	466	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	865	-	-	976	-	-	189	139	697	172	142	628
Mov Cap-2 Maneuver	-	-	-	-	-	-	189	139	-	172	142	-
Stage 1	-	-	-	-	-	-	415	453	-	374	430	-
Stage 2	-	-	-	-	-	-	620	423	-	624	453	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.4	0	0	29.7
HCM LOS			A	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	865	-	-	976	-	-	211
HCM Lane V/C Ratio	-	0.028	-	-	-	-	-	0.314
HCM Control Delay (s)	0	9.3	-	-	0	-	-	29.7
HCM Lane LOS	A	A	-	-	A	-	-	D
HCM 95th %tile Q(veh)	-	0.1	-	-	0	-	-	1.3

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	408
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	593
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	593
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	816	0	-	0	1209	408
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	393	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	807	-	-	-	175	593
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	807	-	-	-	175	593
Mov Cap-2 Maneuver	-	-	-	-	175	-
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	807	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	816	0	-	0	1209	408
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	393	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	807	-	-	-	175	593
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	807	-	-	-	175	593
Mov Cap-2 Maneuver	-	-	-	-	175	-
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	807	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	637	0	0	690	0	0
Future Vol, veh/h	637	0	0	690	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	671	0	0	726	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	336
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	660
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	660
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 No Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	637	0	0	690	0	0
Future Vol, veh/h	637	0	0	690	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	671	0	0	726	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1034	336
Stage 1	-	-	-	-	671	-
Stage 2	-	-	-	-	363	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	228	660
Stage 1	-	0	0	-	470	-
Stage 2	-	0	0	-	674	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	228	660
Mov Cap-2 Maneuver	-	-	-	-	228	-
Stage 1	-	-	-	-	470	-
Stage 2	-	-	-	-	674	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
2: Driveway 7/Cutter Way & San Bernardino Rd

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	7	365	0	0	404	28	0	0	0	21	0	13
Future Vol, veh/h	7	365	0	0	404	28	0	0	0	21	0	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	225	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	7	384	0	0	425	29	0	0	0	22	0	14

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	454	0	0	384	0	0	611	852	192	646	838	227
Stage 1	-	-	-	-	-	-	398	398	-	440	440	-
Stage 2	-	-	-	-	-	-	213	454	-	206	398	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1103	-	-	1171	-	-	378	295	817	357	301	776
Stage 1	-	-	-	-	-	-	599	601	-	566	576	-
Stage 2	-	-	-	-	-	-	769	568	-	777	601	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1103	-	-	1171	-	-	370	293	817	355	299	776
Mov Cap-2 Maneuver	-	-	-	-	-	-	370	293	-	355	299	-
Stage 1	-	-	-	-	-	-	595	597	-	563	576	-
Stage 2	-	-	-	-	-	-	755	568	-	772	597	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0	0	13.7
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1103	-	-	1171	-	-	448
HCM Lane V/C Ratio	-	0.007	-	-	-	-	-	0.08
HCM Control Delay (s)	0	8.3	-	-	0	-	-	13.7
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	0.3

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	434	414	0	0	0
Future Vol, veh/h	0	434	414	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	457	436	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	218
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	786
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	786
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	434	414	0	0	0
Future Vol, veh/h	0	434	414	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	457	436	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	436	0	-	0	665	218
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	229	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1120	-	-	-	393	786
Stage 1	-	-	-	-	619	-
Stage 2	-	-	-	-	787	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1120	-	-	-	393	786
Mov Cap-2 Maneuver	-	-	-	-	393	-
Stage 1	-	-	-	-	619	-
Stage 2	-	-	-	-	787	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1120	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	434	414	0	0	0
Future Vol, veh/h	0	434	414	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	457	436	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	436	0	-	0	665	218
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	229	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1120	-	-	-	393	786
Stage 1	-	-	-	-	619	-
Stage 2	-	-	-	-	787	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1120	-	-	-	393	786
Mov Cap-2 Maneuver	-	-	-	-	393	-
Stage 1	-	-	-	-	619	-
Stage 2	-	-	-	-	787	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1120	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	407	0	0	432	0	0
Future Vol, veh/h	407	0	0	432	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	428	0	0	455	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	214
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	791
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	791
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 No Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	407	0	0	432	0	0
Future Vol, veh/h	407	0	0	432	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	428	0	0	455	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	656	214
Stage 1	-	-	-	-	428	-
Stage 2	-	-	-	-	228	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	398	791
Stage 1	-	0	0	-	625	-
Stage 2	-	0	0	-	788	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	398	791
Mov Cap-2 Maneuver	-	-	-	-	398	-
Stage 1	-	-	-	-	625	-
Stage 2	-	-	-	-	788	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
2: Driveway 7/Cutter Way & San Bernardino Rd

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	1

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Vol, veh/h	1	10	846	0	3	0	444	33	0	0	0	37	0	16
Future Vol, veh/h	1	10	846	0	3	0	444	33	0	0	0	37	0	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	-	None	-	-	-	None	-	-	None	-	-	None
Storage Length	-	225	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	0	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	-	0	-	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	11	891	0	3	0	467	35	0	0	0	39	0	17

Major/Minor	Major1				Major2				Minor1			Minor2		
Conflicting Flow All	502	502	0	0	891	891	0	0	1155	1423	446	961	1406	251
Stage 1	-	-	-	-	-	-	-	-	915	915	-	491	491	-
Stage 2	-	-	-	-	-	-	-	-	240	508	-	470	915	-
Critical Hdwy	6.44	4.14	-	-	6.44	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.52	2.22	-	-	2.52	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	690	1059	-	-	390	757	-	-	152	135	560	211	138	749
Stage 1	-	-	-	-	-	-	-	-	294	350	-	528	546	-
Stage 2	-	-	-	-	-	-	-	-	742	537	-	543	350	-
Platoon blocked, %			-	-			-	-						
Mov Cap-1 Maneuver	1007	1007	-	-	390	390	-	-	146	132	560	207	135	749
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	-	146	132	-	207	135	-
Stage 1	-	-	-	-	-	-	-	-	290	346	-	522	540	-
Stage 2	-	-	-	-	-	-	-	-	717	531	-	537	346	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	0.3	0	22.2
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1007	-	-	390	-	-	265
HCM Lane V/C Ratio	-	0.011	-	-	-	-	-	0.211
HCM Control Delay (s)	0	8.6	-	-	14.3	0.2	-	22.2
HCM Lane LOS	A	A	-	-	B	A	-	C
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	0.8

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	1139	624	0	0	0
Future Vol, veh/h	0	1139	624	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1199	657	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	329
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	667
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	667
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1139	624	0	0	0
Future Vol, veh/h	0	1139	624	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1199	657	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	657	0	-	0	1257	329
Stage 1	-	-	-	-	657	-
Stage 2	-	-	-	-	600	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	926	-	-	-	163	667
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	926	-	-	-	163	667
Mov Cap-2 Maneuver	-	-	-	-	163	-
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	926	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1139	624	0	0	0
Future Vol, veh/h	0	1139	624	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1199	657	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	657	0	-	0	1257	329
Stage 1	-	-	-	-	657	-
Stage 2	-	-	-	-	600	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	926	-	-	-	163	667
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-
Platoon blocked, %			-	-	-	
Mov Cap-1 Maneuver	926	-	-	-	163	667
Mov Cap-2 Maneuver	-	-	-	-	163	-
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	926	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	857	0	0	511	0	0
Future Vol, veh/h	857	0	0	511	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	902	0	0	538	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	451
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	556
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	556
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 No Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	857	0	0	511	0	0
Future Vol, veh/h	857	0	0	511	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	902	0	0	538	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1171	451
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	269	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	186	556
Stage 1	-	0	0	-	356	-
Stage 2	-	0	0	-	752	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	186	556
Mov Cap-2 Maneuver	-	-	-	-	186	-
Stage 1	-	-	-	-	356	-
Stage 2	-	-	-	-	752	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
2: Driveway 7/Cutter Way & San Bernardino Rd

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Vol, veh/h	7	206	0	1	0	184	22	0	0	0	18	0	6
Future Vol, veh/h	7	206	0	1	0	184	22	0	0	0	18	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	-	None	-	-	None	-	-	None
Storage Length	225	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	7	217	0	1	0	194	23	0	0	0	19	0	6

Major/Minor	Major1			Major2				Minor1			Minor2		
Conflicting Flow All	217	0	0	217	217	0	0	330	450	109	331	439	109
Stage 1	-	-	-	-	-	-	-	231	231	-	208	208	-
Stage 2	-	-	-	-	-	-	-	99	219	-	123	231	-
Critical Hdwy	4.14	-	-	6.44	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.52	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1350	-	-	1044	1350	-	-	599	503	924	599	510	924
Stage 1	-	-	-	-	-	-	-	751	712	-	775	729	-
Stage 2	-	-	-	-	-	-	-	896	721	-	868	712	-
Platoon blocked, %		-	-			-	-						
Mov Cap-1 Maneuver	1350	-	-	1044	1044	-	-	592	500	924	596	507	924
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	592	500	-	596	507	-
Stage 1	-	-	-	-	-	-	-	747	708	-	771	728	-
Stage 2	-	-	-	-	-	-	-	889	720	-	863	708	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.3	0	0	10.7
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1350	-	-	1044	-	-	654
HCM Lane V/C Ratio	-	0.005	-	-	-	-	-	0.039
HCM Control Delay (s)	0	7.7	-	-	8.5	0	-	10.7
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	0.1

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	248	238	0	0	0
Future Vol, veh/h	0	248	238	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	261	251	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	126
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	901
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	901
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	248	238	0	0	0
Future Vol, veh/h	0	248	238	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	261	251	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	251	0	-	0	382	126
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	131	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1311	-	-	-	593	901
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1311	-	-	-	593	901
Mov Cap-2 Maneuver	-	-	-	-	593	-
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1311	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	248	238	0	0	0
Future Vol, veh/h	0	248	238	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	261	251	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	251	0	-	0	382	126
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	131	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1311	-	-	-	593	901
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1311	-	-	-	593	901
Mov Cap-2 Maneuver	-	-	-	-	593	-
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1311	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	211	0	0	217	0	0
Future Vol, veh/h	211	0	0	217	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	222	0	0	228	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	111
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	921
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	921
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 No Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	211	0	0	217	0	0
Future Vol, veh/h	211	0	0	217	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	222	0	0	228	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	336	111
Stage 1	-	-	-	-	222	-
Stage 2	-	-	-	-	114	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	634	921
Stage 1	-	0	0	-	794	-
Stage 2	-	0	0	-	898	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	634	921
Mov Cap-2 Maneuver	-	-	-	-	634	-
Stage 1	-	-	-	-	794	-
Stage 2	-	-	-	-	898	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	408
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	593
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	593
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	816	0	-	0	1209	408
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	393	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	807	-	-	-	175	593
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	807	-	-	-	175	593
Mov Cap-2 Maneuver	-	-	-	-	175	-
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	807	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	747	775	0	0	0
Future Vol, veh/h	0	747	775	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	786	816	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	816	0	-	0	1209	408
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	393	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	807	-	-	-	175	593
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	807	-	-	-	175	593
Mov Cap-2 Maneuver	-	-	-	-	175	-
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	651	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	807	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	638	0	0	691	0	0
Future Vol, veh/h	638	0	0	691	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	672	0	0	727	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	336
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	660
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	660
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Build
AM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	638	0	0	691	0	0
Future Vol, veh/h	638	0	0	691	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	672	0	0	727	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1036	336
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	364	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	227	660
Stage 1	-	0	0	-	469	-
Stage 2	-	0	0	-	673	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	227	660
Mov Cap-2 Maneuver	-	-	-	-	227	-
Stage 1	-	-	-	-	469	-
Stage 2	-	-	-	-	673	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↱			↱
Traffic Vol, veh/h	0	1139	624	18	0	0
Future Vol, veh/h	0	1139	624	18	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1199	657	19	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	338
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	658
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	658
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1139	624	0	0	0
Future Vol, veh/h	0	1139	624	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1199	657	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	657	0	-	0	1257	329
Stage 1	-	-	-	-	657	-
Stage 2	-	-	-	-	600	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	926	-	-	-	163	667
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	926	-	-	-	163	667
Mov Cap-2 Maneuver	-	-	-	-	163	-
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	511	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	926	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	20	1139	624	0	0	0
Future Vol, veh/h	20	1139	624	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	1199	657	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	657	0	-	0	1299	329
Stage 1	-	-	-	-	657	-
Stage 2	-	-	-	-	642	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	926	-	-	-	153	667
Stage 1	-	-	-	-	477	-
Stage 2	-	-	-	-	486	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	926	-	-	-	149	667
Mov Cap-2 Maneuver	-	-	-	-	149	-
Stage 1	-	-	-	-	466	-
Stage 2	-	-	-	-	486	-

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	926	-	-	-	-
HCM Lane V/C Ratio	0.023	-	-	-	-
HCM Control Delay (s)	9	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	864	7	0	512	0	0
Future Vol, veh/h	864	7	0	512	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	909	7	0	539	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	458
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	550
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	550
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Build
PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	864	0	0	512	11	7
Future Vol, veh/h	864	0	0	512	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	909	0	0	539	12	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1179	455
Stage 1	-	-	-	-	909	-
Stage 2	-	-	-	-	270	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	183	552
Stage 1	-	0	0	-	353	-
Stage 2	-	0	0	-	751	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	183	552
Mov Cap-2 Maneuver	-	-	-	-	183	-
Stage 1	-	-	-	-	353	-
Stage 2	-	-	-	-	751	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	20.8
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	247	-	-
HCM Lane V/C Ratio	0.077	-	-
HCM Control Delay (s)	20.8	-	-
HCM Lane LOS	C	-	-
HCM 95th %tile Q(veh)	0.2	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	434	443	0	0	0
Future Vol, veh/h	0	434	443	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	457	466	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	233
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	769
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	769
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	434	414	29	0	0
Future Vol, veh/h	0	434	414	29	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	457	436	31	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	467	0	-	0	681	234
Stage 1	-	-	-	-	452	-
Stage 2	-	-	-	-	229	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1091	-	-	-	384	768
Stage 1	-	-	-	-	608	-
Stage 2	-	-	-	-	787	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1091	-	-	-	384	768
Mov Cap-2 Maneuver	-	-	-	-	384	-
Stage 1	-	-	-	-	608	-
Stage 2	-	-	-	-	787	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1091	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	44	434	414	0	0	0
Future Vol, veh/h	44	434	414	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	46	457	436	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	436	0	-	0	757	218
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	321	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1120	-	-	-	344	786
Stage 1	-	-	-	-	619	-
Stage 2	-	-	-	-	708	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1120	-	-	-	330	786
Mov Cap-2 Maneuver	-	-	-	-	330	-
Stage 1	-	-	-	-	594	-
Stage 2	-	-	-	-	708	-

Approach	EB	WB	SB
HCM Control Delay, s	0.8	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1120	-	-	-	-
HCM Lane V/C Ratio	0.041	-	-	-	-
HCM Control Delay (s)	8.4	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	450	0	0	433	0	0
Future Vol, veh/h	450	0	0	433	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	474	0	0	456	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	237
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	764
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	764
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Build
AM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	1.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	407	0	0	433	65	43
Future Vol, veh/h	407	0	0	433	65	43
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	428	0	0	456	68	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	656	214
Stage 1	-	-	-	-	428	-
Stage 2	-	-	-	-	228	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	398	791
Stage 1	-	0	0	-	625	-
Stage 2	-	0	0	-	788	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	398	791
Mov Cap-2 Maneuver	-	-	-	-	398	-
Stage 1	-	-	-	-	625	-
Stage 2	-	-	-	-	788	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	14.4
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	496	-	-
HCM Lane V/C Ratio	0.229	-	-
HCM Control Delay (s)	14.4	-	-
HCM Lane LOS	B	-	-
HCM 95th %tile Q(veh)	0.9	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	280	238	32	0	0
Future Vol, veh/h	0	280	238	32	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	295	251	34	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	143
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	879
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	879
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	248	238	0	32	0
Future Vol, veh/h	0	248	238	0	32	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	261	251	0	34	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	251	0	-	0	382	126
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	131	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1311	-	-	-	593	901
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1311	-	-	-	593	901
Mov Cap-2 Maneuver	-	-	-	-	593	-
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	881	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	11.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1311	-	-	-	593
HCM Lane V/C Ratio	-	-	-	-	0.057
HCM Control Delay (s)	0	-	-	-	11.4
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	36	248	238	0	0	48
Future Vol, veh/h	36	248	238	0	0	48
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	38	261	251	0	0	51

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	251	0	-	0	458	126
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	207	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1311	-	-	-	531	901
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	807	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1311	-	-	-	516	901
Mov Cap-2 Maneuver	-	-	-	-	516	-
Stage 1	-	-	-	-	746	-
Stage 2	-	-	-	-	807	-

Approach	EB	WB	SB
HCM Control Delay, s	1	0	9.2
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1311	-	-	-	901
HCM Lane V/C Ratio	0.029	-	-	-	0.056
HCM Control Delay (s)	7.8	-	-	-	9.2
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	212	12	0	218	0	0
Future Vol, veh/h	212	12	0	218	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	223	13	0	229	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	118
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	912
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	912
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Build
PM Peak Hour of the Generator

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	224	0	0	218	0	0
Future Vol, veh/h	224	0	0	218	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	236	0	0	229	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	351	118
Stage 1	-	-	-	-	236	-
Stage 2	-	-	-	-	115	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	620	912
Stage 1	-	0	0	-	781	-
Stage 2	-	0	0	-	897	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	620	912
Mov Cap-2 Maneuver	-	-	-	-	620	-
Stage 1	-	-	-	-	781	-
Stage 2	-	-	-	-	897	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Cumulative Build AM Street Peak
AM Peak Hour of the Adjacent Street Cumulative

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	762	783	0	0	0
Future Vol, veh/h	0	762	783	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	802	824	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	412
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	589
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	589
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Cumulative Build AM Street Peak
AM Peak Hour of the Adjacent Street Cumulative

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	762	783	0	0	0
Future Vol, veh/h	0	762	783	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	802	824	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	824	0	-	0	1225	412
Stage 1	-	-	-	-	824	-
Stage 2	-	-	-	-	401	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	802	-	-	-	171	589
Stage 1	-	-	-	-	391	-
Stage 2	-	-	-	-	645	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	802	-	-	-	171	589
Mov Cap-2 Maneuver	-	-	-	-	171	-
Stage 1	-	-	-	-	391	-
Stage 2	-	-	-	-	645	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	802	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Cumulative Build AM Street Peak
AM Peak Hour of the Adjacent Street Cumulative

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	762	783	0	0	0
Future Vol, veh/h	0	762	783	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	802	824	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	824	0	-	0	1225	412
Stage 1	-	-	-	-	824	-
Stage 2	-	-	-	-	401	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	802	-	-	-	171	589
Stage 1	-	-	-	-	391	-
Stage 2	-	-	-	-	645	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	802	-	-	-	171	589
Mov Cap-2 Maneuver	-	-	-	-	171	-
Stage 1	-	-	-	-	391	-
Stage 2	-	-	-	-	645	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	802	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Cumulative Build AM Street Peak
AM Peak Hour of the Adjacent Street Cumulative

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	669	0	0	739	0	0
Future Vol, veh/h	669	0	0	739	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	704	0	0	778	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	352
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	644
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	644
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Cumulative Build AM Street Peak
AM Peak Hour of the Adjacent Street Cumulative

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	669	0	0	739	0	0
Future Vol, veh/h	669	0	0	739	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	704	0	0	778	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1093	352
Stage 1	-	-	-	-	704	-
Stage 2	-	-	-	-	389	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	209	644
Stage 1	-	0	0	-	452	-
Stage 2	-	0	0	-	654	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	209	644
Mov Cap-2 Maneuver	-	-	-	-	209	-
Stage 1	-	-	-	-	452	-
Stage 2	-	-	-	-	654	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

HCM 6th TWSC
10: Badillo St & Driveway 1

2021 Cumulative Build PM Street Peak
2021 PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	1155	638	18	0	0
Future Vol, veh/h	0	1155	638	18	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1216	672	19	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	346
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	650
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	650
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	-	0
HCM Lane LOS	-	-	-	A
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
11: Badillo St & Driveway 3

2021 Cumulative Build PM Street Peak
2021 PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1155	638	0	0	0
Future Vol, veh/h	0	1155	638	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	150	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1216	672	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	672	0	-	0	1280	336
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	608	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	915	-	-	-	158	660
Stage 1	-	-	-	-	469	-
Stage 2	-	-	-	-	506	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	915	-	-	-	158	660
Mov Cap-2 Maneuver	-	-	-	-	158	-
Stage 1	-	-	-	-	469	-
Stage 2	-	-	-	-	506	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	915	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

HCM 6th TWSC
12: Badillo St & Driveway 4

2021 Cumulative Build PM Street Peak
2021 PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	20	1155	638	0	0	0
Future Vol, veh/h	20	1155	638	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	1216	672	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	672	0	-	0	1322	336
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	650	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	915	-	-	-	148	660
Stage 1	-	-	-	-	469	-
Stage 2	-	-	-	-	481	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	915	-	-	-	145	660
Mov Cap-2 Maneuver	-	-	-	-	145	-
Stage 1	-	-	-	-	458	-
Stage 2	-	-	-	-	481	-

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	915	-	-	-	-
HCM Lane V/C Ratio	0.023	-	-	-	-
HCM Control Delay (s)	9	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	-

HCM 6th TWSC
13: Driveway 5 & San Bernardino RD

2021 Cumulative Build PM Street Peak
2021 PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	936	7	0	554	0	0
Future Vol, veh/h	936	7	0	554	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	985	7	0	583	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	496
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	519
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	519
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	0	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-

HCM 6th TWSC
14: Driveway 6 & San Bernardino Rd

2021 Cumulative Build PM Street Peak
2021 PM Peak Hour of the Adjacent Street

Intersection	
Int Delay, s/veh	0.3

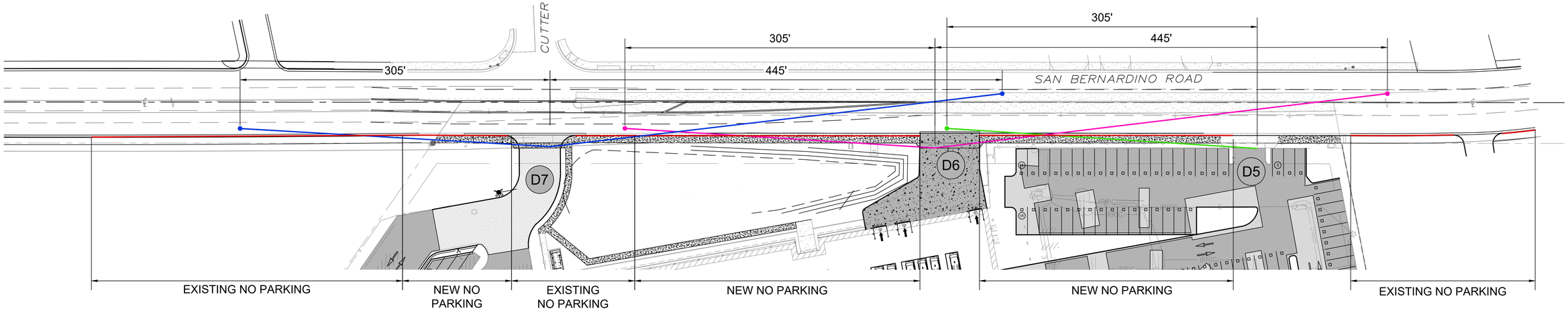
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	936	0	0	554	11	7
Future Vol, veh/h	936	0	0	554	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	985	0	0	583	12	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	-	-	-	1277	493
Stage 1	-	-	-	-	985	-
Stage 2	-	-	-	-	292	-
Critical Hdwy	-	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	-	0	0	-	158	522
Stage 1	-	0	0	-	322	-
Stage 2	-	0	0	-	732	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	158	522
Mov Cap-2 Maneuver	-	-	-	-	158	-
Stage 1	-	-	-	-	322	-
Stage 2	-	-	-	-	732	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	23.2
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	217	-	-
HCM Lane V/C Ratio	0.087	-	-
HCM Control Delay (s)	23.2	-	-
HCM Lane LOS	C	-	-
HCM 95th %tile Q(veh)	0.3	-	-

Appendix H – Sight Triangle Drawings and Restriping Plan



Speed (MPH)*	Stopping Sight Distance (ft.)	Design Intersection Sight Distance (ft.)
25	155	280
30	200	335
35	250	390
40	305	445
45	360	500
50	425	555
55	495	610
60	570	665
65	645	720

Source: *A Policy on Geometric Design of Highway and Streets,* 5th Edition, American Association of State Highway and Trasportation Officials (AASHTO), 2004.

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
0750 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333

DATE: 5-3-21
DRAWN BY: AK

SCALE: 1" = 50'
PROJECT NO.: 2020044.07

REVISIONS

NO	DATE	REMARKS
1		
2		
3		
4		
5		
6		

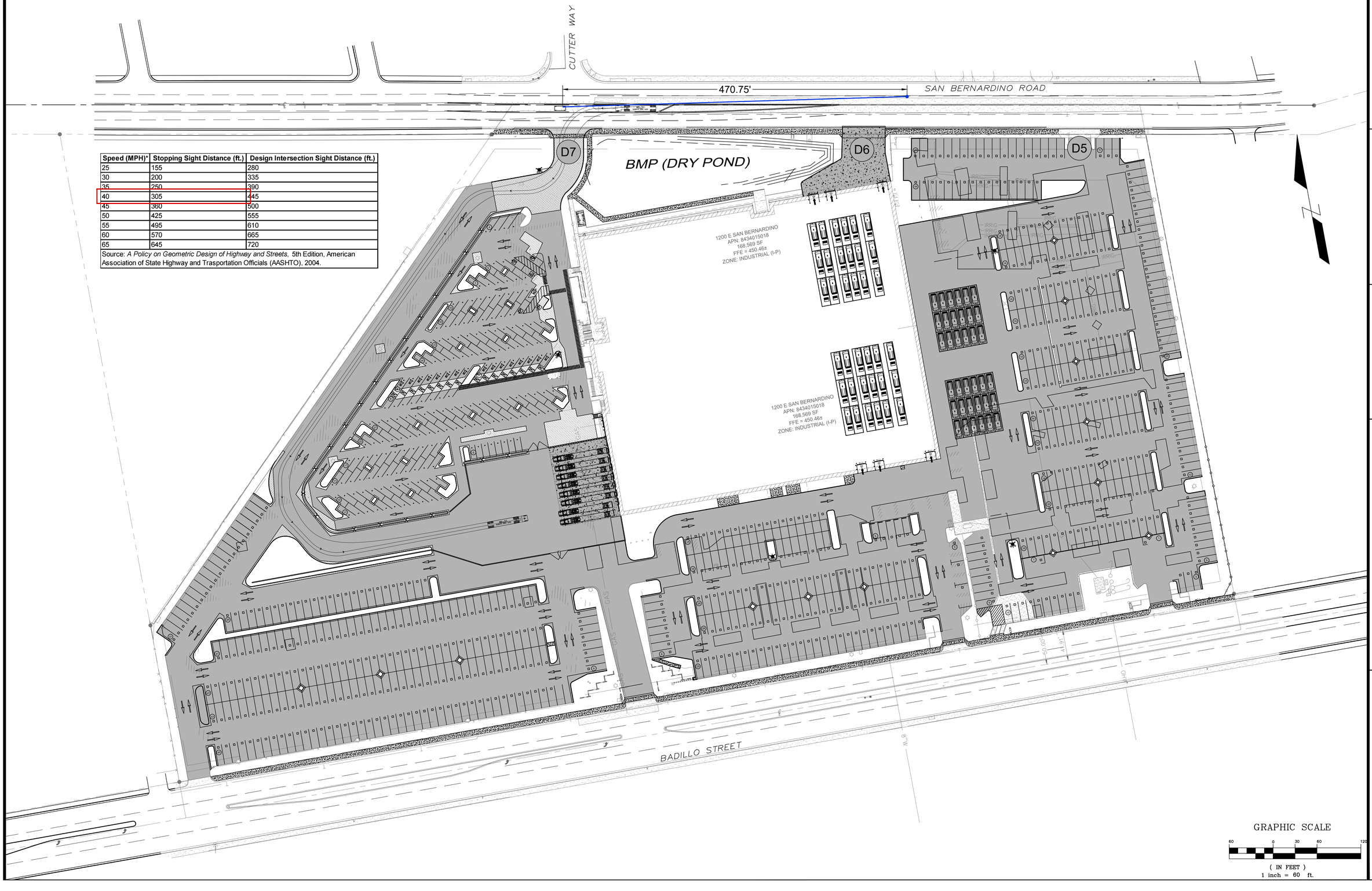
DAX9

WEST COVINA, CALIFORNIA

SIGHT DISTANCE
SAN BERNARDINO ROAD

Speed (MPH)*	Stopping Sight Distance (ft.)	Design Intersection Sight Distance (ft.)
25	155	280
30	200	335
35	250	390
40	305	445
45	360	500
50	425	555
55	495	610
60	570	665
65	645	720

Source: *A Policy on Geometric Design of Highway and Streets,* 5th Edition, American Association of State Highway and Trasportation Officials (AASHTO), 2004.



NV5
NV5 ENGINEERS & CONSULTANTS, INC.
0750 TROON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333

DATE: 4-30-21
DRAWN BY:
DWG. CHECKED BY:
DESIGNED BY:
DGN. CHECKED BY:
SCALE: 1" = 50'
PROJECT NO.

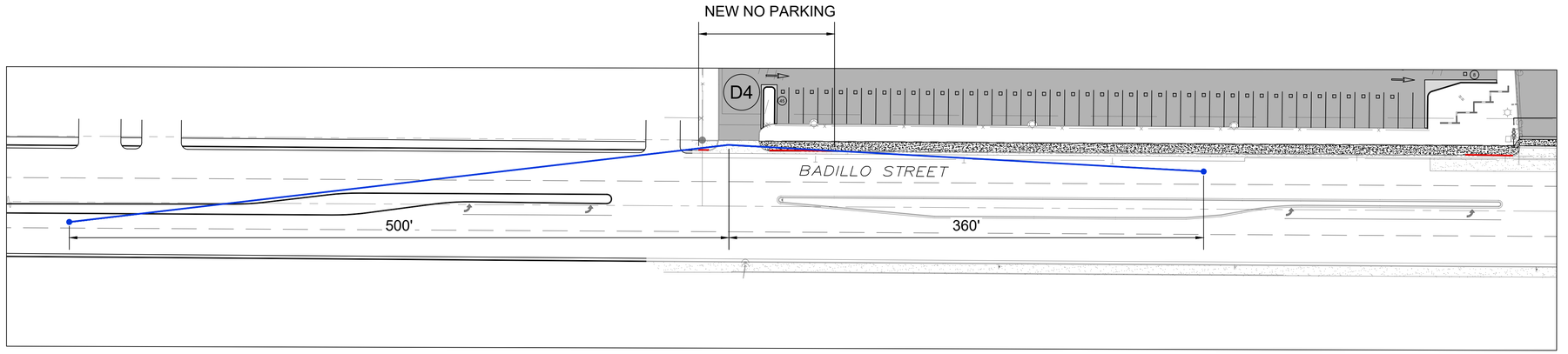
REVISIONS

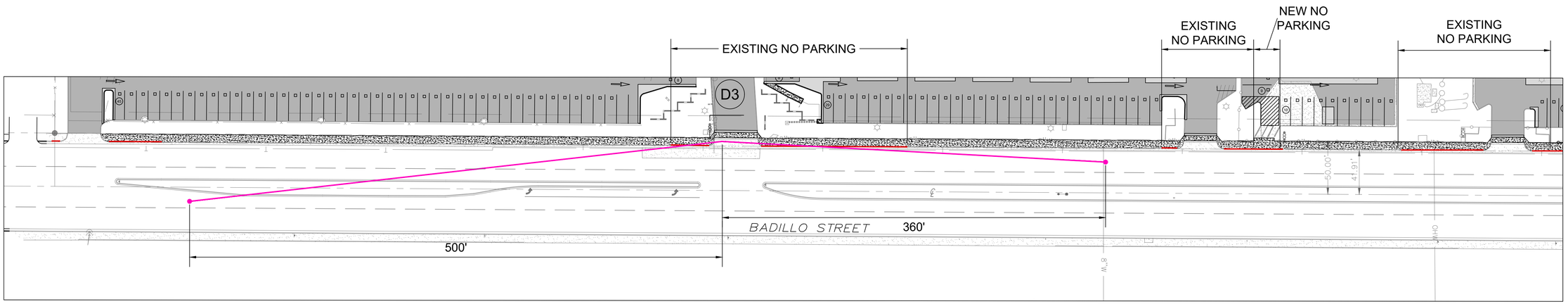
NO	DATE	REMARKS
1		
2		
3		
4		
5		
6		

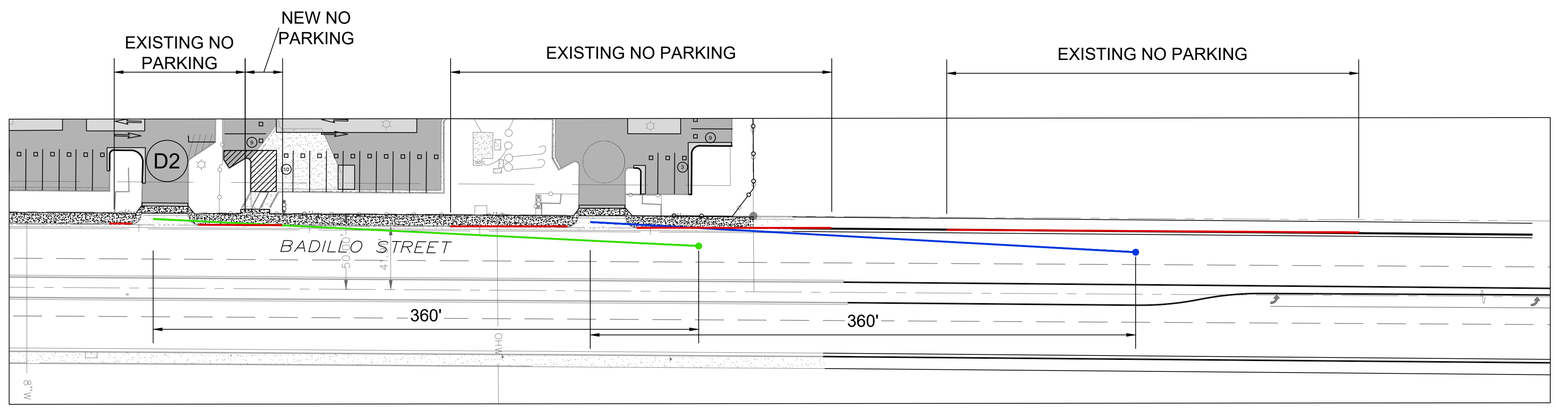
DAX9

WEST COVINA, CALIFORNIA

SIGHT DISTRANCE (TRUCK TURNING)
SAN BERNARDINO ROAD







Speed (MPH)*	Stopping Sight Distance (ft.)	Design Intersection Sight Distance (ft.)
25	155	280
30	200	335
35	250	390
40	305	445
45	360	500
50	425	555
55	495	610
60	570	665
65	645	720

Source: *A Policy on Geometric Design of Highway and Streets,* 5th Edition, American Association of State Highway and Trasportation Officials (AASHTO), 2004.

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333

DATE: 4-30-21
DRAWN BY: AK

SCALE: 1" = 50'
PROJECT NO.: 2020044.07

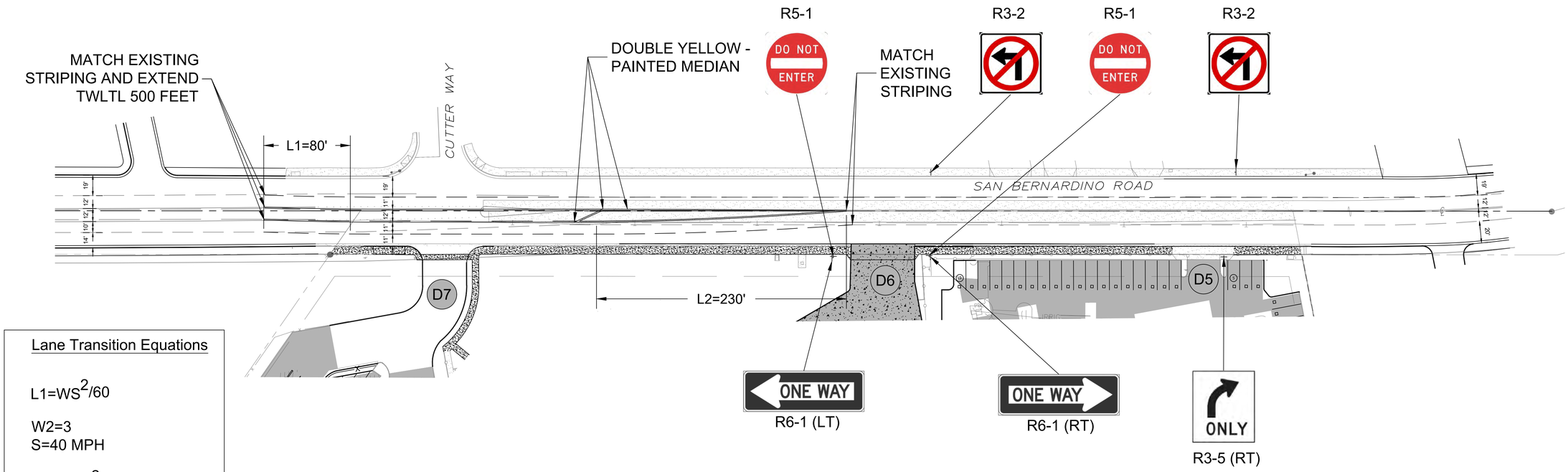
REVISIONS

NO	DATE	REMARKS
1		
2		
3		
4		
5		
6		

DAX9

WEST COVINA, CALIFORNIA

SIGHT DISTANCE BADILLO STREET



Lane Transition Equations

$L1=WS^2/60$

W2=3
S=40 MPH

$L1=3(40)^2/60$

L1=80'

$L2=WS2/60$

W2=8.5
S=40 MPH

$L2=8.5(40)^2/60$

L2=226', use 230'

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333

DATE: 4-30-21
DRAWN BY: AK

SCALE: 1" = 50'
PROJECT NO.: 2020044.07

REVISIONS

NO	DATE	REMARKS
1		
2		
3		
4		
5		
6		

DAX9

WEST COVINA, CALIFORNIA

SAN BERNARDINO ROAD STRIPING EXHIBIT

Appendix I – VMT Evaluation

Vehicle Miles Traveled (VMT) Analysis

An e-commerce company proposes to lease the property spanning the block from W San Bernardino Road to Badillo Street, midway between N Vincent and N Lake Ellen Avenues in the City of West Covina, California. The site is currently occupied by Faith Church and, until recently, its associated private school. Modifications would be made to the existing 177,440 square-foot building, existing parking areas would be restriped, and barriers erected to separate line-haul truck traffic from the southern portion of the site.

As of July 1,2020, Senate Bill 743 (2013) updates the way transportation impacts are evaluated for CEQA purposes for new development projects in California. The legislation considers vehicle miles traveled to be an appropriate metric for measuring environmental impacts, moving away from level of service analysis.

The City of West Covina is included in the San Gabriel Valley Council of Governments' (SGVCOG) travel demand model and is included in SGVCOG's Vehicle Miles Traveled Evaluation Tool. The City has adopted a 15% below baseline VMT per Service Population for all land uses. That baseline is 35.02 and the threshold is 29.77. The evaluation tool indicates the site would have a VMT/Service Population of 31.82 without the project (see following pages).

The proposed tenant offers pre-tax Alternative Transportation Benefits to their employees. These benefits, included in the SGVCOG Elevation Tool as a Tier 4 Transportation Demand Management Program alternative (TP11 Alternative Transportation Benefits) are expected to reduce the VMT per service population to 29.72, below the significance threshold. These benefits are applicable to:

- Transit Fees
- Parking Fees at Park & Ride Lots and Transit Stations
- Vanpool and Qualified Ridesharing (such as Uberpool & Lyft Shared) Fees

A VMT/service population below the significance threshold can be achieved with 15% of employees eligible for these benefits. The SGVCOG Elevation Tool bases the reduction in VMT on the following formula:

%VMT Reduction = 44% reduction in commute VMT x % of employees eligible for benefits

From: VTPI, Todd Litman, Transportation Elasticities, http://www.vtpi.org/elasticities/pdf

SGVCOG VMT Evaluation Tool Report

Project Details

Timestamp of Analysis: May 26, 2021, 07:55:52 AM

Project Name: West Covina E-Commerce Delivery Station

Project Description: Conversion of an existing 177,440 SF building currently occupied by Faith Church to a last-mile e-commence delivery station.

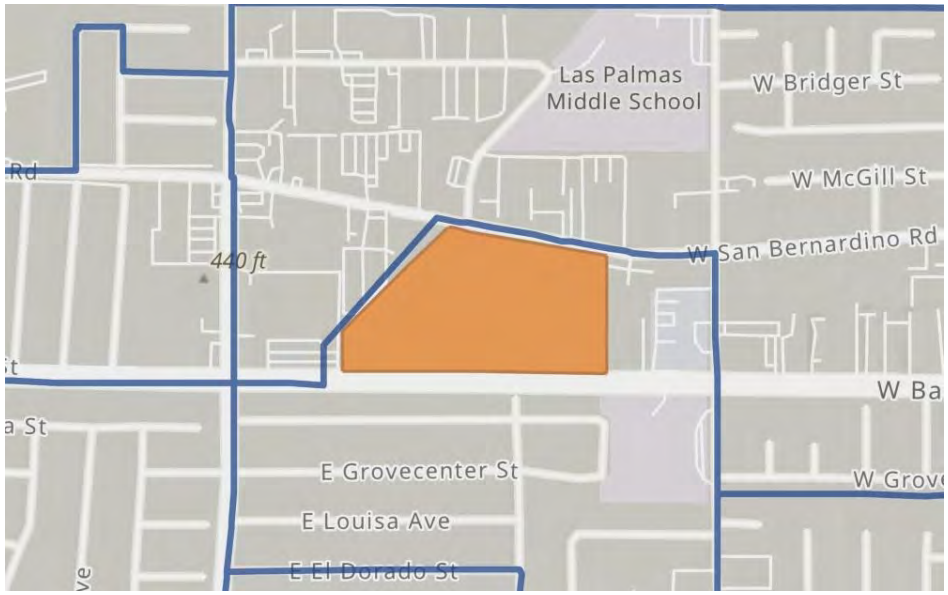
Project Location

Jurisdiction: West Covina

APN	TAZ
8434-015-018	22326400

Inside a TPA?

No (Fail)



Analysis Details

Data Version: SCAG Regional Travel Demand Model 2016 RTP Base Year 2012

Analysis Methodology: TAZ

Baseline Year: 2021

Project Land Use

Residential:

Single Family DU:

Multifamily DU:

Total DUs: 0

Non-Residential:

Office KSF:

Local Serving Retail KSF:

Industrial KSF: 177

Residential Affordability (percent of all units):

Extremely Low Income: 0 %

Very Low Income: 0 %

Low Income: 0 %

Parking:

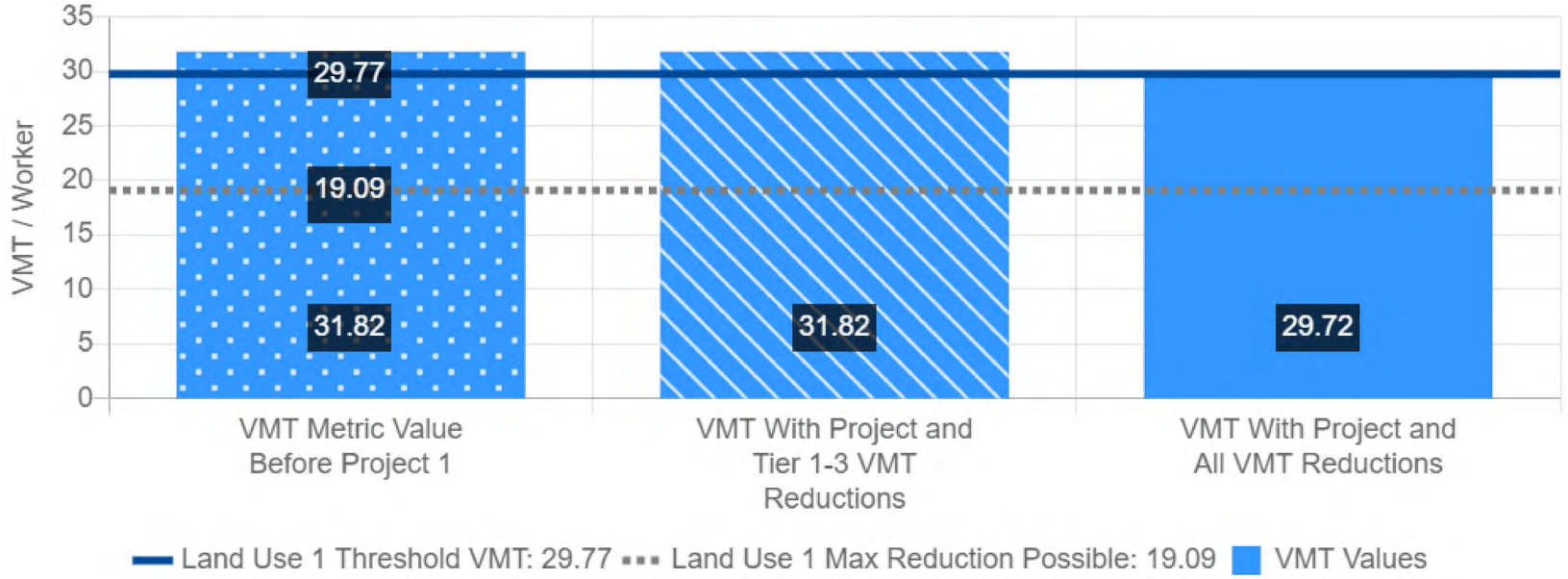
Motor Vehicle Parking: 811

Bicycle Parking: 0

Industrial Vehicle Miles Traveled (VMT) Screening Results

Land Use Type 1:	Industrial
VMT Without Project 1:	Total VMT per Service Population
VMT Baseline Description 1:	SGVCOG Average
VMT Baseline Value 1:	35.02
VMT Threshold Description 1:	-15%
Land Use 1 has been Pre-Screened by the Local Jurisdiction:	N/A

	Without Project	With Project & Tier 1-3 VMT Reductions	With Project & All VMT Reductions
Project Generated Vehicle Miles Traveled (VMT) Rate	31.82	31.82	29.72
Low VMT Screening Analysis	No (Fail)	No (Fail)	Yes (Pass)



Tier 4 TDM Programs

TP11 Alternative Transportation Benefits

Percent of Employees Eligible for Alternative Transportation Benefits:	15 %