Appendix A

CalEEMod Outputs

CalEEMod Version: CalEEMod.2016.3.2

Date: 5/15/2019 10:45 AM

Hyatt House Project
Yolo/Solano AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.00	1000sqft	0.00	4,000.00	0
Other Non-Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	242.00	Space	2.18	96,800.00	0
Fast Food Restaurant with Drive Thru	2.60	1000sqft	0.06	2,600.00	0
High Turnover (Sit Down Restaurant)	2.00	1000sqft	0.05	2,000.00	0
Hotel	144.00	Room	0.49	83,056.00	0
Strip Mall	4.00	1000sqft	0.09	4,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	55
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	294	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Alamo Mixed Use Project. YSAQMD. CO2 adjusted to match PG&E's emission rate per.

Land Use - Project includes 144-room hotel, 2,000 SF (high turn-over restaurant), 2,600 SF (fast food with drive thru), 8,000 SF (retail/commercial), and 242 parking spaces on 4.42 acres.
Construction Phase - Construction assumed to begin January 2020 and would be completed by January 2021.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Trips and VMT - Default trip characteristics assumed.

On-road Fugitive Dust - Assumed 100% of roadway paved.

Grading - Soil will be balanced.

Architectural Coating - Project would utlize low-VOC paint.

Vehicle Trips - Trip generation rates based on traffic study (Fehr and Peers).

Road Dust - Assumed 100% roadways within project vicinity are paved.

Construction Off-road Equipment Mitigation - Assumed compilance with basic fugitive dust reduction measures.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Waste Mitigation - 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	AcresOfGrading	4.00	22.00
tblLandUse	LandUseSquareFeet	209,088.00	83,056.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	4.80	0.49
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00

tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	94	100
tblTripsAndVMT	VendorTripNumber	43.00	44.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	722.03	313.45
tblVehicleTrips	ST_TR	2.46	3.16
tblVehicleTrips	ST_TR	158.37	47.23
tblVehicleTrips	ST_TR	8.19	4.09
tblVehicleTrips	ST_TR	42.04	64.17
tblVehicleTrips	SU_TR	542.72	235.61
tblVehicleTrips	SU_TR	1.05	1.35
tblVehicleTrips	SU_TR	131.84	48.26
tblVehicleTrips	SU_TR	5.95	2.97
tblVehicleTrips	SU_TR	20.43	32.41
tblVehicleTrips	WD_TR	496.12	215.38
tblVehicleTrips	WD_TR	11.03	14.16
tblVehicleTrips	WD_TR	127.15	37.92
tblVehicleTrips	WD_TR	8.17	4.08
tblVehicleTrips	WD_TR	44.32	54.84
tblWater	IndoorWaterUseRate	789,187.65	1,396,255.08
tblWater	OutdoorWaterUseRate	50,373.68	89,122.66

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					
2020	0.3566	3.1977	2.7097	6.5700e-003	0.2614	0.1485	0.4099	0.0883	0.1393	0.2276	0.0000	587.0805	587.0805	0.0869	0.0000	589.2519
2021	0.2601	0.0258	0.0329	7.0000e-005	2.9600e-003	1.3500e-003	4.3100e-003	7.9000e-004	1.3200e-003	2.1100e-003	0.0000	6.5806	6.5806	5.3000e-004	0.0000	6.5938
Maximum	**0.3566**	**3.1977**	**2.7097**	**6.5700e-003**	**0.2614**	**0.1485**	**0.4099**	**0.0883**	**0.1393**	**0.2276**	**0.0000**	**587.0805**	**587.0805**	**0.0869**	**0.0000**	**589.2519**

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					
2020	0.3566	3.1977	2.7097	6.5700e-003	0.2169	0.1485	0.3654	0.0666	0.1393	0.2059	0.0000	587.0801	587.0801	0.0869	0.0000	589.2516
2021	0.2601	0.0258	0.0329	7.0000e-005	2.9600e-003	1.3500e-003	4.3100e-003	7.9000e-004	1.3200e-003	2.1100e-003	0.0000	6.5806	6.5806	5.3000e-004	0.0000	6.5938
Maximum	**0.3566**	**3.1977**	**2.7097**	**6.5700e-003**	**0.2169**	**0.1485**	**0.3654**	**0.0666**	**0.1393**	**0.2059**	**0.0000**	**587.0801**	**587.0801**	**0.0869**	**0.0000**	**589.2516**

	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**	**16.84**	**0.00**	**10.74**	**24.29**	**0.00**	**9.42**	**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	tons/yr										MT/yr					
Area	0.4545	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003
Energy	0.0254	0.2310	0.1940	1.3900e-003		0.0176	0.0176		0.0176	0.0176	0.0000	375.6217	375.6217	0.0171	7.1400e-003	378.1774
Mobile	0.4039	2.9418	3.6815	0.0147	0.9845	0.0125	0.9970	0.2650	0.0117	0.2768	0.0000	1,355.0071	1,355.0071	0.0801	0.0000	1,357.0093
Waste						0.0000	0.0000		0.0000	0.0000	28.5223	0.0000	28.5223	1.6856	0.0000	70.6627
Water						0.0000	0.0000		0.0000	0.0000	2.1140	5.3455	7.4595	0.2177	5.2400e-003	14.4611
Total	**0.8838**	**3.1728**	**3.8791**	**0.0160**	**0.9845**	**0.0300**	**1.0145**	**0.2650**	**0.0293**	**0.2943**	**30.6362**	**1,735.9814**	**1,766.6176**	**2.0005**	**0.0124**	**1,820.3181**

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	0.4545	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003
Energy	0.0254	0.2310	0.1940	1.3900e-003		0.0176	0.0176		0.0176	0.0176	0.0000	375.6217	375.6217	0.0171	7.1400e-003	378.1774
Mobile	0.4039	2.9418	3.6815	0.0147	0.9845	0.0125	0.9970	0.2650	0.0117	0.2768	0.0000	1,355.0071	1,355.0071	0.0801	0.0000	1,357.0093
Waste						0.0000	0.0000		0.0000	0.0000	7.1306	0.0000	7.1306	0.4214	0.0000	17.6657
Water						0.0000	0.0000		0.0000	0.0000	1.6912	4.2764	5.9676	0.1741	4.1900e-003	11.5689
Total	**0.8838**	**3.1728**	**3.8791**	**0.0160**	**0.9845**	**0.0300**	**1.0145**	**0.2650**	**0.0293**	**0.2943**	**8.8218**	**1,734.9123**	**1,743.7341**	**0.6927**	**0.0113**	**1,764.4289**

	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**	**71.20**	**0.06**	**1.30**	**65.37**	**8.48**	**3.07**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/7/2020	5	5	
2	Grading	Grading	1/8/2020	1/17/2020	5	8	
3	Paving	Paving	1/22/2020	2/14/2020	5	18	
4	Building Construction	Building Construction	2/15/2020	1/1/2021	5	230	
5	Architectural Coating	Architectural Coating	1/2/2021	1/27/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 22

Acres of Paving: 3.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,484; Non-Residential Outdoor: 47,828; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Site Preparation	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	44.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

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					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1060	0.0538	1.0000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4253
Total	**0.0102**	**0.1060**	**0.0538**	**1.0000e-004**	**0.0452**	**5.4900e-003**	**0.0507**	**0.0248**	**5.0500e-003**	**0.0299**	**0.0000**	**8.3577**	**8.3577**	**2.7000e-003**	**0.0000**	**8.4253**

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	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	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5100e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4482	0.4482	1.0000e-005	0.0000	0.4485
Total	**2.1000e-004**	**1.5000e-004**	**1.5100e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4482**	**0.4482**	**1.0000e-005**	**0.0000**	**0.4485**

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					
Fugitive Dust					0.0203	0.0000	0.0203	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1060	0.0538	1.0000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4252
Total	**0.0102**	**0.1060**	**0.0538**	**1.0000e-004**	**0.0203**	**5.4900e-003**	**0.0258**	**0.0112**	**5.0500e-003**	**0.0162**	**0.0000**	**8.3577**	**8.3577**	**2.7000e-003**	**0.0000**	**8.4252**

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	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	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5100e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4482	0.4482	1.0000e-005	0.0000	0.4485
Total	**2.1000e-004**	**1.5000e-004**	**1.5100e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4482**	**0.4482**	**1.0000e-005**	**0.0000**	**0.4485**

3.3 Grading - 2020

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					
Fugitive Dust					0.0358	0.0000	0.0358	0.0145	0.0000	0.0145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078
Total	**9.7200e-003**	**0.1055**	**0.0642**	**1.2000e-004**	**0.0358**	**5.0900e-003**	**0.0408**	**0.0145**	**4.6900e-003**	**0.0192**	**0.0000**	**10.4235**	**10.4235**	**3.3700e-003**	**0.0000**	**10.5078**

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	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	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.1500e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6374	0.6374	2.0000e-005	0.0000	0.6378
Total	**3.0000e-004**	**2.2000e-004**	**2.1500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6374**	**0.6374**	**2.0000e-005**	**0.0000**	**0.6378**

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					
Fugitive Dust					0.0161	0.0000	0.0161	6.5300e-003	0.0000	6.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078
Total	**9.7200e-003**	**0.1055**	**0.0642**	**1.2000e-004**	**0.0161**	**5.0900e-003**	**0.0212**	**6.5300e-003**	**4.6900e-003**	**0.0112**	**0.0000**	**10.4235**	**10.4235**	**3.3700e-003**	**0.0000**	**10.5078**

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	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	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.1500e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6374	0.6374	2.0000e-005	0.0000	0.6378
Total	**3.0000e-004**	**2.2000e-004**	**2.1500e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6374**	**0.6374**	**2.0000e-005**	**0.0000**	**0.6378**

3.4 Paving - 2020

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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	2.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0135**	**0.1062**	**0.1105**	**1.7000e-004**		**5.8600e-003**	**5.8600e-003**		**5.4000e-003**	**5.4000e-003**	**0.0000**	**14.7348**	**14.7348**	**4.6300e-003**	**0.0000**	**14.8506**

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	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	0.0000	0.0000
Worker	8.5000e-004	6.1000e-004	6.0400e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7928	1.7928	4.0000e-005	0.0000	1.7939
Total	**8.5000e-004**	**6.1000e-004**	**6.0400e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7928**	**1.7928**	**4.0000e-005**	**0.0000**	**1.7939**

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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	2.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0135**	**0.1062**	**0.1105**	**1.7000e-004**		**5.8600e-003**	**5.8600e-003**		**5.4000e-003**	**5.4000e-003**	**0.0000**	**14.7348**	**14.7348**	**4.6300e-003**	**0.0000**	**14.8506**

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	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	0.0000	0.0000
Worker	8.5000e-004	6.1000e-004	6.0400e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7928	1.7928	4.0000e-005	0.0000	1.7939
Total	**8.5000e-004**	**6.1000e-004**	**6.0400e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7928**	**1.7928**	**4.0000e-005**	**0.0000**	**1.7939**

3.5 Building Construction - 2020

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	0.2427	2.1968	1.9292	3.0800e-003		0.1279	0.1279		0.1203	0.1203	0.0000	265.1934	265.1934	0.0647	0.0000	266.8109
Total	**0.2427**	**2.1968**	**1.9292**	**3.0800e-003**		**0.1279**	**0.1279**		**0.1203**	**0.1203**	**0.0000**	**265.1934**	**265.1934**	**0.0647**	**0.0000**	**266.8109**

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	0.0000	0.0000
Vendor	0.0207	0.6405	0.1275	1.7100e-003	0.0409	3.1600e-003	0.0440	0.0118	3.0200e-003	0.0148	0.0000	162.3297	162.3297	8.3900e-003	0.0000	162.5394
Worker	0.0583	0.0416	0.4148	1.3600e-003	0.1364	9.2000e-004	0.1374	0.0363	8.5000e-004	0.0371	0.0000	123.1630	123.1630	3.0000e-003	0.0000	123.2379
Total	**0.0791**	**0.6822**	**0.5423**	**3.0700e-003**	**0.1773**	**4.0800e-003**	**0.1814**	**0.0481**	**3.8700e-003**	**0.0520**	**0.0000**	**285.4927**	**285.4927**	**0.0114**	**0.0000**	**285.7773**

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	0.2427	2.1968	1.9292	3.0800e-003		0.1279	0.1279		0.1203	0.1203	0.0000	265.1931	265.1931	0.0647	0.0000	266.8106
Total	**0.2427**	**2.1968**	**1.9292**	**3.0800e-003**		**0.1279**	**0.1279**		**0.1203**	**0.1203**	**0.0000**	**265.1931**	**265.1931**	**0.0647**	**0.0000**	**266.8106**

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	0.0000	0.0000
Vendor	0.0207	0.6405	0.1275	1.7100e-003	0.0409	3.1600e-003	0.0440	0.0118	3.0200e-003	0.0148	0.0000	162.3297	162.3297	8.3900e-003	0.0000	162.5394
Worker	0.0583	0.0416	0.4148	1.3600e-003	0.1364	9.2000e-004	0.1374	0.0363	8.5000e-004	0.0371	0.0000	123.1630	123.1630	3.0000e-003	0.0000	123.2379
Total	**0.0791**	**0.6822**	**0.5423**	**3.0700e-003**	**0.1773**	**4.0800e-003**	**0.1814**	**0.0481**	**3.8700e-003**	**0.0520**	**0.0000**	**285.4927**	**285.4927**	**0.0114**	**0.0000**	**285.7773**

3.5 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	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004	0.0000	1.1582	1.1582	2.8000e-004	0.0000	1.1652
Total	**9.5000e-004**	**8.7200e-003**	**8.2900e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.5000e-004**	**4.5000e-004**	**0.0000**	**1.1582**	**1.1582**	**2.8000e-004**	**0.0000**	**1.1652**

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	0.0000	0.0000
Vendor	7.0000e-005	2.5500e-003	4.8000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7024	0.7024	3.0000e-005	0.0000	0.7032
Worker	2.4000e-004	1.6000e-004	1.6500e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5190	0.5190	1.0000e-005	0.0000	0.5193
Total	**3.1000e-004**	**2.7100e-003**	**2.1300e-003**	**2.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.2214**	**1.2214**	**4.0000e-005**	**0.0000**	**1.2226**

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	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004	0.0000	1.1582	1.1582	2.8000e-004	0.0000	1.1652
Total	**9.5000e-004**	**8.7200e-003**	**8.2900e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.5000e-004**	**4.5000e-004**	**0.0000**	**1.1582**	**1.1582**	**2.8000e-004**	**0.0000**	**1.1652**

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	0.0000	0.0000
Vendor	7.0000e-005	2.5500e-003	4.8000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7024	0.7024	3.0000e-005	0.0000	0.7032
Worker	2.4000e-004	1.6000e-004	1.6500e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5190	0.5190	1.0000e-005	0.0000	0.5193
Total	**3.1000e-004**	**2.7100e-003**	**2.1300e-003**	**2.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.2214**	**1.2214**	**4.0000e-005**	**0.0000**	**1.2226**

3.6 Architectural Coating - 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					
Archit. Coating	0.2560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**0.2579**	**0.0137**	**0.0164**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

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	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	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.0700e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.2000e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.9031	1.9031	4.0000e-005	0.0000	1.9042
Total	**8.7000e-004**	**6.0000e-004**	**6.0700e-003**	**2.0000e-005**	**2.1800e-003**	**1.0000e-005**	**2.2000e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.9031**	**1.9031**	**4.0000e-005**	**0.0000**	**1.9042**

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	0.2560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**0.2579**	**0.0137**	**0.0164**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

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	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	0.0000	0.0000
Worker	8.7000e-004	6.0000e-004	6.0700e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.2000e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.9031	1.9031	4.0000e-005	0.0000	1.9042
Total	**8.7000e-004**	**6.0000e-004**	**6.0700e-003**	**2.0000e-005**	**2.1800e-003**	**1.0000e-005**	**2.2000e-003**	**5.8000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.9031**	**1.9031**	**4.0000e-005**	**0.0000**	**1.9042**

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	0.4039	2.9418	3.6815	0.0147	0.9845	0.0125	0.9970	0.2650	0.0117	0.2768	0.0000	1,355.0071	1,355.0071	0.0801	0.0000	1,357.0093
Unmitigated	0.4039	2.9418	3.6815	0.0147	0.9845	0.0125	0.9970	0.2650	0.0117	0.2768	0.0000	1,355.0071	1,355.0071	0.0801	0.0000	1,357.0093

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	559.99	814.97	612.59	639,225	639,225
High Turnover (Sit Down Restaurant)	75.84	94.46	96.52	110,672	110,672
Hotel	587.52	588.96	427.68	1,326,026	1,326,026
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
General Office Building	56.64	12.64	5.40	134,523	134,523
Strip Mall	219.36	256.68	129.64	397,843	397,843
Total	1,499.35	1,767.71	1,271.83	2,608,289	2,608,289

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
Fast Food Restaurant with	15.00	8.00	9.00	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	15.00	8.00	9.00	8.50	72.50	19.00	37	20	43
Hotel	15.00	8.00	9.00	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
General Office Building	15.00	8.00	9.00	33.00	48.00	19.00	77	19	4
Strip Mall	15.00	8.00	9.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
High Turnover (Sit Down Restaurant)	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Hotel	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Other Non-Asphalt Surfaces	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Parking Lot	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
General Office Building	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Strip Mall	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929

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	0.0000	124.2024	124.2024	0.0123	2.5300e-003	125.2641
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	124.2024	124.2024	0.0123	2.5300e-003	125.2641
NaturalGas Mitigated	0.0254	0.2310	0.1940	1.3900e-003		0.0176	0.0176		0.0176	0.0176	0.0000	251.4193	251.4193	4.8200e-003	4.6100e-003	252.9133
NaturalGas Unmitigated	0.0254	0.2310	0.1940	1.3900e-003		0.0176	0.0176		0.0176	0.0176	0.0000	251.4193	251.4193	4.8200e-003	4.6100e-003	252.9133

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					
Fast Food Restaurant with Drive Thru	540488	2.9100e-003	0.0265	0.0223	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8425	28.8425	5.5000e-004	5.3000e-004	29.0139
General Office Building	65480	3.5000e-004	3.2100e-003	2.7000e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4943	3.4943	7.0000e-005	6.0000e-005	3.5150
High Turnover (Sit Down Restaurant)	415760	2.2400e-003	0.0204	0.0171	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.1865	22.1865	4.3000e-004	4.1000e-004	22.3184
Hotel	3.68021e+006	0.0198	0.1804	0.1515	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	196.3901	196.3901	3.7600e-003	3.6000e-003	197.5571
Other Non-Asphalt Surfaces	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	0.0000	0.0000
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	0.0000	0.0000
Strip Mall	9480	5.0000e-005	4.6000e-004	3.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5059	0.5059	1.0000e-005	1.0000e-005	0.5089
Total		**0.0254**	**0.2309**	**0.1940**	**1.3800e-003**		**0.0176**	**0.0176**		**0.0176**	**0.0176**	**0.0000**	**251.4193**	**251.4193**	**4.8200e-003**	**4.6100e-003**	**252.9133**

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					
Fast Food Restaurant with	540488	2.9100e-003	0.0265	0.0223	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8425	28.8425	5.5000e-004	5.3000e-004	29.0139
General Office Building	65480	3.5000e-004	3.2100e-003	2.7000e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4943	3.4943	7.0000e-005	6.0000e-005	3.5150
High Turnover (Sit Down Restaurant)	415760	2.2400e-003	0.0204	0.0171	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.1865	22.1865	4.3000e-004	4.1000e-004	22.3184
Hotel	3.68021e+006	0.0198	0.1804	0.1515	1.0800e-003		0.0137	0.0137		0.0137	0.0137	0.0000	196.3901	196.3901	3.7600e-003	3.6000e-003	197.5571
Other Non-Asphalt Surfaces	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	0.0000	0.0000
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	0.0000	0.0000
Strip Mall	9480	5.0000e-005	4.6000e-004	3.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5059	0.5059	1.0000e-005	1.0000e-005	0.5089
Total		**0.0254**	**0.2309**	**0.1940**	**1.3800e-003**		**0.0176**	**0.0176**		**0.0176**	**0.0176**	**0.0000**	**251.4193**	**251.4193**	**4.8200e-003**	**4.6100e-003**	**252.9133**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	85072	11.3449	1.1200e-003	2.3000e-004	11.4419
General Office Building	71320	9.5110	9.4000e-004	1.9000e-004	9.5923
High Turnover (Sit Down Restaurant)	65440	8.7268	8.6000e-004	1.8000e-004	8.8014
Hotel	632887	84.3993	8.3300e-003	1.7200e-003	85.1208
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	33880	4.5181	4.5000e-004	9.0000e-005	4.5567
Strip Mall	42760	5.7023	5.6000e-004	1.2000e-004	5.7511
Total		**124.2024**	**0.0123**	**2.5300e-003**	**125.2641**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with	85072	11.3449	1.1200e-003	2.3000e-004	11.4419
General Office Building	71320	9.5110	9.4000e-004	1.9000e-004	9.5923
High Turnover (Sit Down Restaurant)	65440	8.7268	8.6000e-004	1.8000e-004	8.8014
Hotel	632887	84.3993	8.3300e-003	1.7200e-003	85.1208
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	33880	4.5181	4.5000e-004	9.0000e-005	4.5567
Strip Mall	42760	5.7023	5.6000e-004	1.2000e-004	5.7511
Total		**124.2024**	**0.0123**	**2.5300e-003**	**125.2641**

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	0.4545	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003
Unmitigated	0.4545	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003

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	0.0699					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003
Total	**0.4545**	**3.0000e-005**	**3.6800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.1500e-003**	**7.1500e-003**	**2.0000e-005**	**0.0000**	**7.6200e-003**

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	0.0699					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1500e-003	7.1500e-003	2.0000e-005	0.0000	7.6200e-003
Total	**0.4545**	**3.0000e-005**	**3.6800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.1500e-003**	**7.1500e-003**	**2.0000e-005**	**0.0000**	**7.6200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.9676	0.1741	4.1900e-003	11.5689
Unmitigated	7.4595	0.2177	5.2400e-003	14.4611

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.39626 / 0.0891227	1.4921	0.0456	1.1000e-003	2.9586
General Office Building	0.710935 / 0.435734	0.9419	0.0232	5.6000e-004	1.6902
High Turnover (Sit Down Restaurant)	0.607067 / 0.038749	0.6487	0.0198	4.8000e-004	1.2864
Hotel	3.65281 / 0.405868	3.9841	0.1193	2.8700e-003	7.8215
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.29629 / 0.181597	0.3926	9.6800e-003	2.3000e-004	0.7044
Total		**7.4595**	**0.2177**	**5.2400e-003**	**14.4611**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with	1.117 / 0.0712981	1.1937	0.0365	8.8000e-004	2.3669
General Office Building	0.568748 / 0.348587	0.7535	0.0186	4.5000e-004	1.3522
High Turnover (Sit Down Restaurant)	0.485654 / 0.0309992	0.5190	0.0159	3.8000e-004	1.0291
Hotel	2.92225 / 0.324695	3.1873	0.0954	2.2900e-003	6.2572
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.237032 / 0.145278	0.3141	7.7500e-003	1.9000e-004	0.5635
Total		**5.9676**	**0.1741**	**4.1900e-003**	**11.5689**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.1306	0.4214	0.0000	17.6657
Unmitigated	28.5223	1.6856	0.0000	70.6627

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	29.95	6.0796	0.3593	0.0000	15.0619
General Office Building	3.72	0.7551	0.0446	0.0000	1.8708
High Turnover (Sit Down Restaurant)	23.8	4.8312	0.2855	0.0000	11.9691
Hotel	78.84	16.0038	0.9458	0.0000	39.6488
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.2	0.8526	0.0504	0.0000	2.1122
Total		**28.5223**	**1.6856**	**0.0000**	**70.6627**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with	7.4875	1.5199	0.0898	0.0000	3.7655
General Office Building	0.93	0.1888	0.0112	0.0000	0.4677
High Turnover (Sit Down Restaurant)	5.95	1.2078	0.0714	0.0000	2.9923
Hotel	19.71	4.0010	0.2365	0.0000	9.9122
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.05	0.2131	0.0126	0.0000	0.5281
Total		**7.1306**	**0.4214**	**0.0000**	**17.6657**

CalEEMod Version: CalEEMod.2016.3.2

Date: 5/15/2019 10:48 AM

Hyatt House Project
Yolo/Solano AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.00	1000sqft	0.00	4,000.00	0
Other Non-Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	242.00	Space	2.18	96,800.00	0
Fast Food Restaurant with Drive Thru	2.60	1000sqft	0.06	2,600.00	0
High Turnover (Sit Down Restaurant)	2.00	1000sqft	0.05	2,000.00	0
Hotel	144.00	Room	0.49	83,056.00	0
Strip Mall	4.00	1000sqft	0.09	4,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	55
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	294	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Alamo Mixed Use Project. YSAQMD. CO2 adjusted to match PG&E's emission rate per.

Land Use - Project includes 144-room hotel, 2,000 SF (high turn-over restaurant), 2,600 SF (fast food with drive thru), 8,000 SF (retail/commercial), and 242 parking spaces on 4.42 acres.

Construction Phase - Construction assumed to begin January 2020 and would be completed by January 2021.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Trips and VMT - Default trip characteristics assumed.

On-road Fugitive Dust - Assumed 100% of roadway paved.

Grading - Soil will be balanced.

Architectural Coating - Project would utlize low-VOC paint.

Vehicle Trips - Trip generation rates based on traffic study (Fehr and Peers).

Road Dust - Assumed 100% roadways within project vicinity are paved.

Construction Off-road Equipment Mitigation - Assumed compilance with basic fugitive dust reduction measures.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Waste Mitigation - 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	AcresOfGrading	4.00	22.00
tblLandUse	LandUseSquareFeet	209,088.00	83,056.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	4.80	0.49
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00

tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	94	100
tblTripsAndVMT	VendorTripNumber	43.00	44.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	722.03	313.45
tblVehicleTrips	ST_TR	2.46	3.16
tblVehicleTrips	ST_TR	158.37	47.23
tblVehicleTrips	ST_TR	8.19	4.09
tblVehicleTrips	ST_TR	42.04	64.17
tblVehicleTrips	SU_TR	542.72	235.61
tblVehicleTrips	SU_TR	1.05	1.35
tblVehicleTrips	SU_TR	131.84	48.26
tblVehicleTrips	SU_TR	5.95	2.97
tblVehicleTrips	SU_TR	20.43	32.41
tblVehicleTrips	WD_TR	496.12	215.38
tblVehicleTrips	WD_TR	11.03	14.16
tblVehicleTrips	WD_TR	127.15	37.92
tblVehicleTrips	WD_TR	8.17	4.08
tblVehicleTrips	WD_TR	44.32	54.84
tblWater	IndoorWaterUseRate	789,187.65	1,396,255.08
tblWater	OutdoorWaterUseRate	50,373.68	89,122.66

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					
2020	4.1698	42.4716	22.2213	0.0551	18.2716	2.1988	20.4703	9.9851	2.0229	12.0080	0.0000	5,436.6799	5,436.6799	1.1972	0.0000	5,454.9740
2021	28.7643	22.7362	21.3609	0.0545	1.5987	0.9796	2.5784	0.4323	0.9211	1.3534	0.0000	5,377.0133	5,377.0133	0.7177	0.0000	5,394.9560
Maximum	**28.7643**	**42.4716**	**22.2213**	**0.0551**	**18.2716**	**2.1988**	**20.4703**	**9.9851**	**2.0229**	**12.0080**	**0.0000**	**5,436.6799**	**5,436.6799**	**1.1972**	**0.0000**	**5,454.9740**

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					
2020	4.1698	42.4716	22.2213	0.0551	8.3351	2.1988	10.5339	4.5233	2.0229	6.5461	0.0000	5,436.6799	5,436.6799	1.1972	0.0000	5,454.9740
2021	28.7643	22.7362	21.3609	0.0545	1.5987	0.9796	2.5784	0.4323	0.9211	1.3534	0.0000	5,377.0133	5,377.0133	0.7177	0.0000	5,394.9560
Maximum	**28.7643**	**42.4716**	**22.2213**	**0.0551**	**8.3351**	**2.1988**	**10.5339**	**4.5233**	**2.0229**	**6.5461**	**0.0000**	**5,436.6799**	**5,436.6799**	**1.1972**	**0.0000**	**5,454.9740**

	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**	**50.01**	**0.00**	**43.11**	**52.43**	**0.00**	**40.88**	**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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Energy	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
Mobile	3.2454	18.9290	25.0435	0.1002	6.5027	0.0793	6.5820	1.7456	0.0745	1.8201		10,207.5189	10,207.5189	0.5658		10,221.6627
Total	**5.8768**	**20.1949**	**26.1475**	**0.1078**	**6.5027**	**0.1756**	**6.6783**	**1.7456**	**0.1708**	**1.9164**		**11,726.1945**	**11,726.1945**	**0.5951**	**0.0278**	**11,749.3683**

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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Energy	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
Mobile	3.2454	18.9290	25.0435	0.1002	6.5027	0.0793	6.5820	1.7456	0.0745	1.8201		10,207.5189	10,207.5189	0.5658		10,221.6627
Total	**5.8768**	**20.1949**	**26.1475**	**0.1078**	**6.5027**	**0.1756**	**6.6783**	**1.7456**	**0.1708**	**1.9164**		**11,726.1945**	**11,726.1945**	**0.5951**	**0.0278**	**11,749.3683**

	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	Site Preparation	Site Preparation	1/1/2020	1/7/2020	5	5	
2	Grading	Grading	1/8/2020	1/17/2020	5	8	
3	Paving	Paving	1/22/2020	2/14/2020	5	18	
4	Building Construction	Building Construction	2/15/2020	1/1/2021	5	230	
5	Architectural Coating	Architectural Coating	1/2/2021	1/27/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 22

Acres of Paving: 3.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,484; Non-Residential Outdoor: 47,828; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Site Preparation	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	44.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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		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	0.0933	0.0542	0.7077	2.1800e-003	0.2053	1.3500e-003	0.2067	0.0545	1.2400e-003	0.0557		217.0847	217.0847	5.3800e-003		217.2191
Total	**0.0933**	**0.0542**	**0.7077**	**2.1800e-003**	**0.2053**	**1.3500e-003**	**0.2067**	**0.0545**	**1.2400e-003**	**0.0557**		**217.0847**	**217.0847**	**5.3800e-003**		**217.2191**

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					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**8.1298**	**2.1974**	**10.3272**	**4.4688**	**2.0216**	**6.4904**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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		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	0.0933	0.0542	0.7077	2.1800e-003	0.2053	1.3500e-003	0.2067	0.0545	1.2400e-003	0.0557		217.0847	217.0847	5.3800e-003		217.2191
Total	**0.0933**	**0.0542**	**0.7077**	**2.1800e-003**	**0.2053**	**1.3500e-003**	**0.2067**	**0.0545**	**1.2400e-003**	**0.0557**		**217.0847**	**217.0847**	**5.3800e-003**		**217.2191**

3.3 Grading - 2020

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					
Fugitive Dust					8.9385	0.0000	8.9385	3.6251	0.0000	3.6251			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**8.9385**	**1.2734**	**10.2119**	**3.6251**	**1.1716**	**4.7967**		**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

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		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	0.0830	0.0482	0.6291	1.9400e-003	0.1825	1.2000e-003	0.1837	0.0484	1.1000e-003	0.0495		192.9641	192.9641	4.7800e-003		193.0836
Total	**0.0830**	**0.0482**	**0.6291**	**1.9400e-003**	**0.1825**	**1.2000e-003**	**0.1837**	**0.0484**	**1.1000e-003**	**0.0495**		**192.9641**	**192.9641**	**4.7800e-003**		**193.0836**

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					
Fugitive Dust					4.0223	0.0000	4.0223	1.6313	0.0000	1.6313			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**4.0223**	**1.2734**	**5.2957**	**1.6313**	**1.1716**	**2.8029**	**0.0000**	**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

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		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	0.0830	0.0482	0.6291	1.9400e-003	0.1825	1.2000e-003	0.1837	0.0484	1.1000e-003	0.0495		192.9641	192.9641	4.7800e-003		193.0836
Total	**0.0830**	**0.0482**	**0.6291**	**1.9400e-003**	**0.1825**	**1.2000e-003**	**0.1837**	**0.0484**	**1.1000e-003**	**0.0495**		**192.9641**	**192.9641**	**4.7800e-003**		**193.0836**

3.4 Paving - 2020

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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.3173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5010**	**11.8015**	**12.2823**	**0.0189**		**0.6509**	**0.6509**		**0.6005**	**0.6005**		**1,804.7070**	**1,804.7070**	**0.5670**		**1,818.8830**

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		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	0.1037	0.0603	0.7863	2.4200e-003	0.2281	1.4900e-003	0.2296	0.0605	1.3800e-003	0.0619		241.2052	241.2052	5.9700e-003		241.3545
Total	**0.1037**	**0.0603**	**0.7863**	**2.4200e-003**	**0.2281**	**1.4900e-003**	**0.2296**	**0.0605**	**1.3800e-003**	**0.0619**		**241.2052**	**241.2052**	**5.9700e-003**		**241.3545**

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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.3173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5010**	**11.8015**	**12.2823**	**0.0189**		**0.6509**	**0.6509**		**0.6005**	**0.6005**	**0.0000**	**1,804.7070**	**1,804.7070**	**0.5670**		**1,818.8830**

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		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	0.1037	0.0603	0.7863	2.4200e-003	0.2281	1.4900e-003	0.2296	0.0605	1.3800e-003	0.0619		241.2052	241.2052	5.9700e-003		241.3545
Total	**0.1037**	**0.0603**	**0.7863**	**2.4200e-003**	**0.2281**	**1.4900e-003**	**0.2296**	**0.0605**	**1.3800e-003**	**0.0619**		**241.2052**	**241.2052**	**5.9700e-003**		**241.3545**

3.5 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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		0.0000
Vendor	0.1781	5.4825	1.0376	0.0151	0.3669	0.0273	0.3942	0.1056	0.0261	0.1317		1,581.1089	1,581.1089	0.0767		1,583.0250
Worker	0.5599	0.3254	4.2461	0.0131	1.2318	8.0700e-003	1.2399	0.3267	7.4400e-003	0.3341		1,302.5080	1,302.5080	0.0323		1,303.3145
Total	**0.7380**	**5.8079**	**5.2837**	**0.0282**	**1.5987**	**0.0354**	**1.6341**	**0.4323**	**0.0336**	**0.4658**		**2,883.6168**	**2,883.6168**	**0.1089**		**2,886.3395**

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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		0.0000
Vendor	0.1781	5.4825	1.0376	0.0151	0.3669	0.0273	0.3942	0.1056	0.0261	0.1317		1,581.1089	1,581.1089	0.0767		1,583.0250
Worker	0.5599	0.3254	4.2461	0.0131	1.2318	8.0700e-003	1.2399	0.3267	7.4400e-003	0.3341		1,302.5080	1,302.5080	0.0323		1,303.3145
Total	**0.7380**	**5.8079**	**5.2837**	**0.0282**	**1.5987**	**0.0354**	**1.6341**	**0.4323**	**0.0336**	**0.4658**		**2,883.6168**	**2,883.6168**	**0.1089**		**2,886.3395**

3.5 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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		0.0000
Vendor	0.1468	5.0129	0.8993	0.0150	0.3669	0.0132	0.3801	0.1056	0.0126	0.1182		1,566.6741	1,566.6741	0.0728		1,568.4938
Worker	0.5201	0.2912	3.8864	0.0126	1.2318	7.8400e-003	1.2396	0.3267	7.2200e-003	0.3339		1,256.9753	1,256.9753	0.0289		1,257.6979
Total	**0.6669**	**5.3041**	**4.7857**	**0.0276**	**1.5987**	**0.0210**	**1.6197**	**0.4323**	**0.0198**	**0.4521**		**2,823.6494**	**2,823.6494**	**0.1017**		**2,826.1918**

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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		0.0000
Vendor	0.1468	5.0129	0.8993	0.0150	0.3669	0.0132	0.3801	0.1056	0.0126	0.1182		1,566.6741	1,566.6741	0.0728		1,568.4938
Worker	0.5201	0.2912	3.8864	0.0126	1.2318	7.8400e-003	1.2396	0.3267	7.2200e-003	0.3339		1,256.9753	1,256.9753	0.0289		1,257.6979
Total	**0.6669**	**5.3041**	**4.7857**	**0.0276**	**1.5987**	**0.0210**	**1.6197**	**0.4323**	**0.0198**	**0.4521**		**2,823.6494**	**2,823.6494**	**0.1017**		**2,826.1918**

3.6 Architectural Coating - 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					
Archit. Coating	28.4395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**28.6584**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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		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	0.1060	0.0593	0.7917	2.5700e-003	0.2509	1.6000e-003	0.2525	0.0666	1.4700e-003	0.0680		256.0505	256.0505	5.8900e-003		256.1977
Total	**0.1060**	**0.0593**	**0.7917**	**2.5700e-003**	**0.2509**	**1.6000e-003**	**0.2525**	**0.0666**	**1.4700e-003**	**0.0680**		**256.0505**	**256.0505**	**5.8900e-003**		**256.1977**

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	28.4395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**28.6584**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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		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	0.1060	0.0593	0.7917	2.5700e-003	0.2509	1.6000e-003	0.2525	0.0666	1.4700e-003	0.0680		256.0505	256.0505	5.8900e-003		256.1977
Total	**0.1060**	**0.0593**	**0.7917**	**2.5700e-003**	**0.2509**	**1.6000e-003**	**0.2525**	**0.0666**	**1.4700e-003**	**0.0680**		**256.0505**	**256.0505**	**5.8900e-003**		**256.1977**

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	3.2454	18.9290	25.0435	0.1002	6.5027	0.0793	6.5820	1.7456	0.0745	1.8201		10,207.5189	10,207.5189	0.5658		10,221.6627
Unmitigated	3.2454	18.9290	25.0435	0.1002	6.5027	0.0793	6.5820	1.7456	0.0745	1.8201		10,207.5189	10,207.5189	0.5658		10,221.6627

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	559.99	814.97	612.59	639,225	639,225
High Turnover (Sit Down Restaurant)	75.84	94.46	96.52	110,672	110,672
Hotel	587.52	588.96	427.68	1,326,026	1,326,026
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
General Office Building	56.64	12.64	5.40	134,523	134,523
Strip Mall	219.36	256.68	129.64	397,843	397,843
Total	1,499.35	1,767.71	1,271.83	2,608,289	2,608,289

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with	15.00	8.00	9.00	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	15.00	8.00	9.00	8.50	72.50	19.00	37	20	43
Hotel	15.00	8.00	9.00	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
General Office Building	15.00	8.00	9.00	33.00	48.00	19.00	77	19	4
Strip Mall	15.00	8.00	9.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
High Turnover (Sit Down Restaurant)	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Hotel	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Other Non-Asphalt Surfaces	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Parking Lot	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
General Office Building	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Strip Mall	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929

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	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
NaturalGas Unmitigated	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122

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					
Fast Food Restaurant with Drive Thru	1480.79	0.0160	0.1452	0.1220	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.2105	174.2105	3.3400e-003	3.1900e-003	175.2457
General Office Building	179.397	1.9300e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		21.1056	21.1056	4.0000e-004	3.9000e-004	21.2310
High Turnover (Sit Down Restaurant)	1139.07	0.0123	0.1117	0.0938	6.7000e-004		8.4900e-003	8.4900e-003		8.4900e-003	8.4900e-003		134.0081	134.0081	2.5700e-003	2.4600e-003	134.8044
Hotel	10082.8	0.1087	0.9885	0.8304	5.9300e-003		0.0751	0.0751		0.0751	0.0751		1,186.2083	1,186.2083	0.0227	0.0218	1,193.2574
Other Non-Asphalt Surfaces	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	0.0000
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	0.0000
Strip Mall	25.9726	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		3.0556	3.0556	6.0000e-005	6.0000e-005	3.0738
Total		**0.1392**	**1.2655**	**1.0630**	**7.6000e-003**		**0.0962**	**0.0962**		**0.0962**	**0.0962**		**1,518.5880**	**1,518.5880**	**0.0291**	**0.0279**	**1,527.6122**

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					
Fast Food Restaurant with	1.48079	0.0160	0.1452	0.1220	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.2105	174.2105	3.3400e-003	3.1900e-003	175.2457
General Office Building	0.179397	1.9300e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		21.1056	21.1056	4.0000e-004	3.9000e-004	21.2310
High Turnover (Sit Down Restaurant)	1.13907	0.0123	0.1117	0.0938	6.7000e-004		8.4900e-003	8.4900e-003		8.4900e-003	8.4900e-003		134.0081	134.0081	2.5700e-003	2.4600e-003	134.8044
Hotel	10.0828	0.1087	0.9885	0.8304	5.9300e-003		0.0751	0.0751		0.0751	0.0751		1,186.2083	1,186.2083	0.0227	0.0218	1,193.2574
Other Non-Asphalt Surfaces	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	0.0000
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	0.0000
Strip Mall	0.0259726	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		3.0556	3.0556	6.0000e-005	6.0000e-005	3.0738
Total		**0.1392**	**1.2655**	**1.0630**	**7.6000e-003**		**0.0962**	**0.0962**		**0.0962**	**0.0962**		**1,518.5880**	**1,518.5880**	**0.0291**	**0.0279**	**1,527.6122**

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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Unmitigated	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934

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	0.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8100e-003	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Total	**2.4922**	**3.7000e-004**	**0.0409**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0876**	**0.0876**	**2.3000e-004**		**0.0934**

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	0.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8100e-003	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Total	**2.4922**	**3.7000e-004**	**0.0409**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0876**	**0.0876**	**2.3000e-004**		**0.0934**

CalEEMod Version: CalEEMod.2016.3.2

Date: 5/15/2019 10:48 AM

Hyatt House Project
Yolo/Solano AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.00	1000sqft	0.00	4,000.00	0
Other Non-Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	242.00	Space	2.18	96,800.00	0
Fast Food Restaurant with Drive Thru	2.60	1000sqft	0.06	2,600.00	0
High Turnover (Sit Down Restaurant)	2.00	1000sqft	0.05	2,000.00	0
Hotel	144.00	Room	0.49	83,056.00	0
Strip Mall	4.00	1000sqft	0.09	4,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	55
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	294	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Alamo Mixed Use Project. YSAQMD. CO2 adjusted to match PG&E's emission rate per.

Land Use - Project includes 144-room hotel, 2,000 SF (high turn-over restaurant), 2,600 SF (fast food with drive thru), 8,000 SF (retail/commercial), and 242 parking spaces on 4.42 acres.

Construction Phase - Construction assumed to begin January 2020 and would be completed by January 2021.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Off-road Equipment - Assumed default equipment.

Trips and VMT - Default trip characteristics assumed.

On-road Fugitive Dust - Assumed 100% of roadway paved.

Grading - Soil will be balanced.

Architectural Coating - Project would utlize low-VOC paint.

Vehicle Trips - Trip generation rates based on traffic study (Fehr and Peers).

Road Dust - Assumed 100% roadways within project vicinity are paved.

Construction Off-road Equipment Mitigation - Assumed compilance with basic fugitive dust reduction measures.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Waste Mitigation - 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	AcresOfGrading	4.00	22.00
tblLandUse	LandUseSquareFeet	209,088.00	83,056.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	4.80	0.49
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00

tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	94	100
tblTripsAndVMT	VendorTripNumber	43.00	44.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	722.03	313.45
tblVehicleTrips	ST_TR	2.46	3.16
tblVehicleTrips	ST_TR	158.37	47.23
tblVehicleTrips	ST_TR	8.19	4.09
tblVehicleTrips	ST_TR	42.04	64.17
tblVehicleTrips	SU_TR	542.72	235.61
tblVehicleTrips	SU_TR	1.05	1.35
tblVehicleTrips	SU_TR	131.84	48.26
tblVehicleTrips	SU_TR	5.95	2.97
tblVehicleTrips	SU_TR	20.43	32.41
tblVehicleTrips	WD_TR	496.12	215.38
tblVehicleTrips	WD_TR	11.03	14.16
tblVehicleTrips	WD_TR	127.15	37.92
tblVehicleTrips	WD_TR	8.17	4.08
tblVehicleTrips	WD_TR	44.32	54.84
tblWater	IndoorWaterUseRate	789,187.65	1,396,255.08
tblWater	OutdoorWaterUseRate	50,373.68	89,122.66

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					
2020	4.1696	42.4857	22.1227	0.0532	18.2716	2.1988	20.4703	9.9851	2.0229	12.0080	0.0000	5,246.3570	5,246.3570	1.1966	0.0000	5,264.8021
2021	28.7642	22.8923	20.9767	0.0527	1.5987	0.9802	2.5789	0.4323	0.9217	1.3539	0.0000	5,192.0923	5,192.0923	0.7238	0.0000	5,210.1864
Maximum	**28.7642**	**42.4857**	**22.1227**	**0.0532**	**18.2716**	**2.1988**	**20.4703**	**9.9851**	**2.0229**	**12.0080**	**0.0000**	**5,246.3570**	**5,246.3570**	**1.1966**	**0.0000**	**5,264.8021**

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					
2020	4.1696	42.4857	22.1227	0.0532	8.3351	2.1988	10.5339	4.5233	2.0229	6.5461	0.0000	5,246.3570	5,246.3570	1.1966	0.0000	5,264.8021
2021	28.7642	22.8923	20.9767	0.0527	1.5987	0.9802	2.5789	0.4323	0.9217	1.3539	0.0000	5,192.0923	5,192.0923	0.7238	0.0000	5,210.1864
Maximum	**28.7642**	**42.4857**	**22.1227**	**0.0532**	**8.3351**	**2.1988**	**10.5339**	**4.5233**	**2.0229**	**6.5461**	**0.0000**	**5,246.3570**	**5,246.3570**	**1.1966**	**0.0000**	**5,264.8021**

	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**	**50.01**	**0.00**	**43.11**	**52.43**	**0.00**	**40.88**	**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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Energy	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
Mobile	2.5388	19.3773	25.7525	0.0920	6.5027	0.0817	6.5844	1.7456	0.0768	1.8224		9,374.9772	9,374.9772	0.6068		9,390.1478
Total	**5.1702**	**20.6432**	**26.8564**	**0.0996**	**6.5027**	**0.1780**	**6.6807**	**1.7456**	**0.1731**	**1.9188**		**10,893.6528**	**10,893.6528**	**0.6362**	**0.0278**	**10,917.8534**

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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Energy	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
Mobile	2.5388	19.3773	25.7525	0.0920	6.5027	0.0817	6.5844	1.7456	0.0768	1.8224		9,374.9772	9,374.9772	0.6068		9,390.1478
Total	**5.1702**	**20.6432**	**26.8564**	**0.0996**	**6.5027**	**0.1780**	**6.6807**	**1.7456**	**0.1731**	**1.9188**		**10,893.6528**	**10,893.6528**	**0.6362**	**0.0278**	**10,917.8534**

	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	Site Preparation	Site Preparation	1/1/2020	1/7/2020	5	5	
2	Grading	Grading	1/8/2020	1/17/2020	5	8	
3	Paving	Paving	1/22/2020	2/14/2020	5	18	
4	Building Construction	Building Construction	2/15/2020	1/1/2021	5	230	
5	Architectural Coating	Architectural Coating	1/2/2021	1/27/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 22

Acres of Paving: 3.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,484; Non-Residential Outdoor: 47,828; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Site Preparation	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	44.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2020

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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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		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	0.0931	0.0684	0.6091	1.9300e-003	0.2053	1.3500e-003	0.2067	0.0545	1.2400e-003	0.0557		192.6372	192.6372	4.7300e-003		192.7556
Total	**0.0931**	**0.0684**	**0.6091**	**1.9300e-003**	**0.2053**	**1.3500e-003**	**0.2067**	**0.0545**	**1.2400e-003**	**0.0557**		**192.6372**	**192.6372**	**4.7300e-003**		**192.7556**

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					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**8.1298**	**2.1974**	**10.3272**	**4.4688**	**2.0216**	**6.4904**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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		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	0.0931	0.0684	0.6091	1.9300e-003	0.2053	1.3500e-003	0.2067	0.0545	1.2400e-003	0.0557		192.6372	192.6372	4.7300e-003		192.7556
Total	**0.0931**	**0.0684**	**0.6091**	**1.9300e-003**	**0.2053**	**1.3500e-003**	**0.2067**	**0.0545**	**1.2400e-003**	**0.0557**		**192.6372**	**192.6372**	**4.7300e-003**		**192.7556**

3.3 Grading - 2020

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					
Fugitive Dust					8.9385	0.0000	8.9385	3.6251	0.0000	3.6251			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**8.9385**	**1.2734**	**10.2119**	**3.6251**	**1.1716**	**4.7967**		**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

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		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	0.0828	0.0608	0.5414	1.7200e-003	0.1825	1.2000e-003	0.1837	0.0484	1.1000e-003	0.0495		171.2331	171.2331	4.2100e-003		171.3383
Total	**0.0828**	**0.0608**	**0.5414**	**1.7200e-003**	**0.1825**	**1.2000e-003**	**0.1837**	**0.0484**	**1.1000e-003**	**0.0495**		**171.2331**	**171.2331**	**4.2100e-003**		**171.3383**

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					
Fugitive Dust					4.0223	0.0000	4.0223	1.6313	0.0000	1.6313			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**4.0223**	**1.2734**	**5.2957**	**1.6313**	**1.1716**	**2.8029**	**0.0000**	**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

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		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	0.0828	0.0608	0.5414	1.7200e-003	0.1825	1.2000e-003	0.1837	0.0484	1.1000e-003	0.0495		171.2331	171.2331	4.2100e-003		171.3383
Total	**0.0828**	**0.0608**	**0.5414**	**1.7200e-003**	**0.1825**	**1.2000e-003**	**0.1837**	**0.0484**	**1.1000e-003**	**0.0495**		**171.2331**	**171.2331**	**4.2100e-003**		**171.3383**

3.4 Paving - 2020

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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.3173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5010**	**11.8015**	**12.2823**	**0.0189**		**0.6509**	**0.6509**		**0.6005**	**0.6005**		**1,804.7070**	**1,804.7070**	**0.5670**		**1,818.8830**

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		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	0.1034	0.0760	0.6768	2.1500e-003	0.2281	1.4900e-003	0.2296	0.0605	1.3800e-003	0.0619		214.0414	214.0414	5.2600e-003		214.1728
Total	**0.1034**	**0.0760**	**0.6768**	**2.1500e-003**	**0.2281**	**1.4900e-003**	**0.2296**	**0.0605**	**1.3800e-003**	**0.0619**		**214.0414**	**214.0414**	**5.2600e-003**		**214.1728**

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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.3173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5010**	**11.8015**	**12.2823**	**0.0189**		**0.6509**	**0.6509**		**0.6005**	**0.6005**	**0.0000**	**1,804.7070**	**1,804.7070**	**0.5670**		**1,818.8830**

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		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	0.1034	0.0760	0.6768	2.1500e-003	0.2281	1.4900e-003	0.2296	0.0605	1.3800e-003	0.0619		214.0414	214.0414	5.2600e-003		214.1728
Total	**0.1034**	**0.0760**	**0.6768**	**2.1500e-003**	**0.2281**	**1.4900e-003**	**0.2296**	**0.0605**	**1.3800e-003**	**0.0619**		**214.0414**	**214.0414**	**5.2600e-003**		**214.1728**

3.5 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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		0.0000
Vendor	0.1870	5.5906	1.2243	0.0147	0.3669	0.0280	0.3949	0.1056	0.0268	0.1323		1,537.4706	1,537.4706	0.0866		1,539.6344
Worker	0.5586	0.4102	3.6546	0.0116	1.2318	8.0700e-003	1.2399	0.3267	7.4400e-003	0.3341		1,155.8233	1,155.8233	0.0284		1,156.5333
Total	**0.7456**	**6.0007**	**4.8789**	**0.0263**	**1.5987**	**0.0360**	**1.6348**	**0.4323**	**0.0342**	**0.4665**		**2,693.2939**	**2,693.2939**	**0.1150**		**2,696.1676**

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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		0.0000
Vendor	0.1870	5.5906	1.2243	0.0147	0.3669	0.0280	0.3949	0.1056	0.0268	0.1323		1,537.4706	1,537.4706	0.0866		1,539.6344
Worker	0.5586	0.4102	3.6546	0.0116	1.2318	8.0700e-003	1.2399	0.3267	7.4400e-003	0.3341		1,155.8233	1,155.8233	0.0284		1,156.5333
Total	**0.7456**	**6.0007**	**4.8789**	**0.0263**	**1.5987**	**0.0360**	**1.6348**	**0.4323**	**0.0342**	**0.4665**		**2,693.2939**	**2,693.2939**	**0.1150**		**2,696.1676**

3.5 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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		0.0000
Vendor	0.1550	5.0933	1.0698	0.0146	0.3669	0.0138	0.3807	0.1056	0.0132	0.1188		1,523.2961	1,523.2961	0.0824		1,525.3552
Worker	0.5196	0.3669	3.3317	0.0112	1.2318	7.8400e-003	1.2396	0.3267	7.2200e-003	0.3339		1,115.4323	1,115.4323	0.0254		1,116.0669
Total	**0.6746**	**5.4602**	**4.4015**	**0.0258**	**1.5987**	**0.0216**	**1.6203**	**0.4323**	**0.0204**	**0.4527**		**2,638.7284**	**2,638.7284**	**0.1078**		**2,641.4221**

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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		0.0000
Vendor	0.1550	5.0933	1.0698	0.0146	0.3669	0.0138	0.3807	0.1056	0.0132	0.1188		1,523.2961	1,523.2961	0.0824		1,525.3552
Worker	0.5196	0.3669	3.3317	0.0112	1.2318	7.8400e-003	1.2396	0.3267	7.2200e-003	0.3339		1,115.4323	1,115.4323	0.0254		1,116.0669
Total	**0.6746**	**5.4602**	**4.4015**	**0.0258**	**1.5987**	**0.0216**	**1.6203**	**0.4323**	**0.0204**	**0.4527**		**2,638.7284**	**2,638.7284**	**0.1078**		**2,641.4221**

3.6 Architectural Coating - 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					
Archit. Coating	28.4395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**28.6584**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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		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	0.1058	0.0747	0.6787	2.2800e-003	0.2509	1.6000e-003	0.2525	0.0666	1.4700e-003	0.0680		227.2177	227.2177	5.1700e-003		227.3470
Total	**0.1058**	**0.0747**	**0.6787**	**2.2800e-003**	**0.2509**	**1.6000e-003**	**0.2525**	**0.0666**	**1.4700e-003**	**0.0680**		**227.2177**	**227.2177**	**5.1700e-003**		**227.3470**

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	28.4395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**28.6584**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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		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	0.1058	0.0747	0.6787	2.2800e-003	0.2509	1.6000e-003	0.2525	0.0666	1.4700e-003	0.0680		227.2177	227.2177	5.1700e-003		227.3470
Total	**0.1058**	**0.0747**	**0.6787**	**2.2800e-003**	**0.2509**	**1.6000e-003**	**0.2525**	**0.0666**	**1.4700e-003**	**0.0680**		**227.2177**	**227.2177**	**5.1700e-003**		**227.3470**

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	2.5388	19.3773	25.7525	0.0920	6.5027	0.0817	6.5844	1.7456	0.0768	1.8224		9,374.9772	9,374.9772	0.6068		9,390.1478
Unmitigated	2.5388	19.3773	25.7525	0.0920	6.5027	0.0817	6.5844	1.7456	0.0768	1.8224		9,374.9772	9,374.9772	0.6068		9,390.1478

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	559.99	814.97	612.59	639,225	639,225
High Turnover (Sit Down Restaurant)	75.84	94.46	96.52	110,672	110,672
Hotel	587.52	588.96	427.68	1,326,026	1,326,026
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
General Office Building	56.64	12.64	5.40	134,523	134,523
Strip Mall	219.36	256.68	129.64	397,843	397,843
Total	1,499.35	1,767.71	1,271.83	2,608,289	2,608,289

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with	15.00	8.00	9.00	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	15.00	8.00	9.00	8.50	72.50	19.00	37	20	43
Hotel	15.00	8.00	9.00	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0
General Office Building	15.00	8.00	9.00	33.00	48.00	19.00	77	19	4
Strip Mall	15.00	8.00	9.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
High Turnover (Sit Down Restaurant)	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Hotel	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Other Non-Asphalt Surfaces	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Parking Lot	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
General Office Building	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929
Strip Mall	0.523474	0.037926	0.194068	0.114815	0.021291	0.005457	0.036110	0.054974	0.001332	0.002002	0.006933	0.000689	0.000929

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	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122
NaturalGas Unmitigated	0.1392	1.2655	1.0630	7.5900e-003		0.0962	0.0962		0.0962	0.0962		1,518.5880	1,518.5880	0.0291	0.0278	1,527.6122

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					
Fast Food Restaurant with Drive Thru	1480.79	0.0160	0.1452	0.1220	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.2105	174.2105	3.3400e-003	3.1900e-003	175.2457
General Office Building	179.397	1.9300e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		21.1056	21.1056	4.0000e-004	3.9000e-004	21.2310
High Turnover (Sit Down Restaurant)	1139.07	0.0123	0.1117	0.0938	6.7000e-004		8.4900e-003	8.4900e-003		8.4900e-003	8.4900e-003		134.0081	134.0081	2.5700e-003	2.4600e-003	134.8044
Hotel	10082.8	0.1087	0.9885	0.8304	5.9300e-003		0.0751	0.0751		0.0751	0.0751		1,186.2083	1,186.2083	0.0227	0.0218	1,193.2574
Other Non-Asphalt Surfaces	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	0.0000
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	0.0000
Strip Mall	25.9726	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		3.0556	3.0556	6.0000e-005	6.0000e-005	3.0738
Total		**0.1392**	**1.2655**	**1.0630**	**7.6000e-003**		**0.0962**	**0.0962**		**0.0962**	**0.0962**		**1,518.5880**	**1,518.5880**	**0.0291**	**0.0279**	**1,527.6122**

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					
Fast Food Restaurant with	1.48079	0.0160	0.1452	0.1220	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.2105	174.2105	3.3400e-003	3.1900e-003	175.2457
General Office Building	0.179397	1.9300e-003	0.0176	0.0148	1.1000e-004		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		21.1056	21.1056	4.0000e-004	3.9000e-004	21.2310
High Turnover (Sit Down Restaurant)	1.13907	0.0123	0.1117	0.0938	6.7000e-004		8.4900e-003	8.4900e-003		8.4900e-003	8.4900e-003		134.0081	134.0081	2.5700e-003	2.4600e-003	134.8044
Hotel	10.0828	0.1087	0.9885	0.8304	5.9300e-003		0.0751	0.0751		0.0751	0.0751		1,186.2083	1,186.2083	0.0227	0.0218	1,193.2574
Other Non-Asphalt Surfaces	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	0.0000
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	0.0000
Strip Mall	0.0259726	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		3.0556	3.0556	6.0000e-005	6.0000e-005	3.0738
Total		**0.1392**	**1.2655**	**1.0630**	**7.6000e-003**		**0.0962**	**0.0962**		**0.0962**	**0.0962**		**1,518.5880**	**1,518.5880**	**0.0291**	**0.0279**	**1,527.6122**

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	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Unmitigated	2.4922	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934

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	0.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8100e-003	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Total	**2.4922**	**3.7000e-004**	**0.0409**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0876**	**0.0876**	**2.3000e-004**		**0.0934**

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	0.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8100e-003	3.7000e-004	0.0409	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0876	0.0876	2.3000e-004		0.0934
Total	**2.4922**	**3.7000e-004**	**0.0409**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0876**	**0.0876**	**2.3000e-004**		**0.0934**

Natural Gas Consumption

Land Use	kBTU/yr	Therms
Fast Food Restaurant w/ Drive Thru	540,488.00	5,404.88
High Turnover Restaurant	415,760.00	4,157.60
Hotel	3,680,210.00	36,802.10
General Office Building	64,480.00	644.80
Strip Mall	9,480.00	94.80
Total kBTU	**4,710,418.00**	47,104.18
Total Therms	**47,104.18**	

4,710,418,000.00 BTU
1 Therm 100,000 BTU
47,104.18 Total Therms

Hours of Operation for Construction Equipment

Phase	Equipment Type	Number of Equipment	Hours/day	Phase Duration	Hours of Equipmment Use	Phase Hours Subtotals
Site Preparation	Rubber Tired Dozers	3	8	5	120	
Site Preparation	Tractors/Loaders/Backhoes	4	8	5	160	**280**
Grading	Excavators	1	8	10	80	
Grading	Graders	1	8	10	80	
Grading	Rubber Tired Dozers	1	8	10	80	
Grading	Tractors/Loaders/Backhoes	3	8	10	240	**480**
Paving	Cement and Mortar Mixers	2	6	18	216	
Paving	Pavers	1	8	18	144	
Paving	Paving Equipment	2	6	18	216	
Paving	Rollers	2	6	18	216	
Paving	Tractors/Loaders/Backhoes	1	8	18	144	**936**
Building Construction	Cranes	1	7	230	1,610	
Building Construction	Forklifts	3	8	230	5,520	
Building Construction	Generator Sets	1	8	230	1,840	
Building Construction	Tractors/Loaders/Backhoes	3	7	230	4,830	
Building Construction	Welders	1	8	230	1,840	**15,640**
Architectural Coating	Air Compressors	1	6	18	108	**108**
				Total	**17,444**	

Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO2 (MT)	Kg/CO2/Gallon	Gallons	
Site Preparation	7	8.43	10.35	814.03	58,991.77
Grading	6	10.51	10.35	1,015.25	
Paving	8	14.85	10.35	1,434.84	
Building Construction	9	266.81	10.35	25,778.80	
Architectural Coating	1	2.30	10.35	222.41	
			Total	**29,265.32**	

Construction Worker Gasoline Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Site Preparation	90	0.45	9.13	49.12
Grading	160	0.64	9.13	69.86
Paving	396	1.79	9.13	196.48
Building Construction	24,840	123.24	9.13	13,498.13
Architectural Coating	396	1.90	9.13	208.57
		Total		**14,022.16**

Construction Vendor Truck Diesel Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Site Preparation	0	0.00	10.35	0.00
Grading	0	0.00	10.35	0.00
Paving	0	0.00	10.35	0.00
Building Construction	10,120	162.54	10.35	15,704.29
Architectural Coating	0	0.00	10.35	0.00
		Total		**15,704.29**

Construction Haul Truck Diesel Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Site Preparation	0	0.00	10.35	0.00
Grading	0	0.00	10.35	0.00
Paving	0	0.00	10.35	0.00
Building Construction	0	0.00	10.35	0.00
Architectural Coating	0	0.00	10.35	0.00
		Total		**0.00**

lda	ldt1	ldt2	mdv	ldh1	ldh2	mhd	hhd	obus	ubus	mcy	sbus	mh
0.609162	0.038894	0.1786	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.00095
0.928914												
0.071086												

Mobile Source Fuel Consumption - Operation

Fuel	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Gasoline	1,639.00	9.13	179,518.37
Diesel	125.43	10.35	12,118.47
	Total		**191,636.84**

California's Consumption of Petroleum Over Construction Period

52,900,000 gallons per day
14,864,900,000.00

1/1/2020	12/31/2020	262
1/1/2021	1/27/2021	19
		281

Appendix B

Biological Constraints Report

DUDEK

853 LINCOLN WAY, SUITE #208
AUBURN, CALIFORNIA 95603
T 530.887.8500 F 530.885.8372

April 12, 2019 11601

Angelica Garcia
City of Vacaville
650 Merchant Street
Vacaville, California 95688

Subject: ***Biological Constraints Report for the Proposed Vaca Valley Hotel Project in Vacaville, Solano County, California***

Dear Mrs. Garcia:

At the request of the City of Vacaville, Dudek has prepared this letter report documenting the methodology and results of a biological constraints analysis performed for the proposed Vaca Valley Hotel Project (Project), located in the City of Vacaville, Solano County, California (Figure 1). Specifically, the analysis focused on identifying biological resources, particularly those considered of special status by local, state, and/or federal resource agencies, within or immediately adjacent to the Project site.

PROJECT LOCATION

The approximately 5.5-acre site is located at the southwest corner of Vaca Valley Parkway and E. Monte Vista Avenue in the northwestern portion of the City of Vacaville. The center of the Project site corresponds to 38°, 23', 37.6" north latitude and 121°, 57', 16.1" west longitude, in township 7 north, range 1 west, section 23 of the "Allendale, California" U.S. Geological Survey 7.5-minute quadrangle.

METHODS

Literature Review

For this report, special-status plant and wildlife species are those that are (1) listed, proposed for listing, or candidates for listing under the federal Endangered Species Act as threatened or endangered; (2) listed or candidates for listing under the California Endangered Species Act as threatened or endangered; (3) a state fully-protected species; (4) a California Department of Fish and Wildlife (CDFW) Species of Special Concern; or (5) a species listed on the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants with a California Rare Plant Rank of 1B or 2B.

Special-status vegetation communities are those communities identified by CDFW in the California Natural Community List (CDFW 2018) with a state rarity ranking of S1, S2, or S3. Special-status communities also include wetland and riparian communities of which impacts to could trigger the need for regulatory permits pursuant to the federal Clean Water Act, Regional Water Quality Control Board, and/or the California Fish and Game Code.

Special-status species and vegetation community resources present or potentially present on the Project site were identified through a literature search using the following sources: the U.S. Fish and Wildlife Service (USFWS) Information, Planning, and Conservation (IPaC) Trust Resource Report (USFWS 2019a); the CDFW California Natural Diversity Database (CNDDB) (CDFW 2019); and the CNPS online Inventory of Rare, Threatened, and Endangered Plants (CNPS 2019). Searches were completed for the following U.S. Geological Survey 7.5-minute quadrangles: Monticello Dam, Winters, Merritt, Mt. Vaca, Allendale, Dixon, Fairfield North, Elmira, and Dozier.

Dudek also reviewed historic aerial photography of the project site dating back to 1952 (Nationwide 2019).

Field Reconnaissance

Dudek biologist Paul Keating conducted a reconnaissance-level site assessment on January 2, 2019. Because the focus of the site visit and this report was to identify potential constraints to future development of the site posed by onsite biological resources and/or the potential of sensitive biological resources to occur, no focused presence/absence surveys for special-status plant or wildlife species were conducted. However, all observed native and naturalized plant species as well as any wildlife species encountered within the Project site during the site visit were identified and recorded. The potential for special-status plant and wildlife species to occur within the Project site was evaluated based on the vegetation communities and soils present, the results of the database review discussed above, and on known life history requirements and ranges of special-status species known to occur in the region.

Natural vegetation communities were mapped directly in the field using the Manual of California Vegetation, 2nd Edition (Sawyer et al. 2009) and the California Natural Community List (CDFW 2018). Ornamental and landscaped vegetation, as well as other land cover types, were also mapped in the field.

Latin and common names for plant species with a California Rare Plant Rank follow the CNPS Inventory of Rare and Endangered Plants (CNPS 2019). For plant species without a California Rare Plant Rank, Latin names follow the Jepson Interchange List of Currently Accepted Names of

Native and Naturalized Plants of California (Jepson Flora Project 2019), and common names follow the United States Department of Agriculture's Natural Resources Conservation Service Plants Database (USDA 2017).

Dudek geographic information systems (GIS) specialists mapped observed biological resources into GIS and provided figures using ArcGIS software.

RESULTS

Site Description

The Project site is relatively flat with an elevation of approximately 105 feet above mean sea level. Historically, the site has been altered by grading activities associated with adjacent development. The site is primarily comprised of previously graded disturbed area bounded by some ornamental landscaping to the east, north, and west. Existing commercial, mixed-used development and Interstate 505 (Figure 2) surround the Project site. Along the northern end of the site there is an armored canal bordering Vaca Valley Parkway, this canal is historically part of Horse Creek and is used primarily to convey stormwater.

Soils

Two soil types are mapped on the project site: Rincon clay loam, 0-2 percent slope, and San Ysidro sandy loam, 0-2 percent slopes (Figure 3) (USDA 2019). Although these soils represent the native soils in the area, the Project site has been previously graded which has changed the site's soil characteristics.

Vegetation Communities and Land Covers

At the time of the 2019 site visit, one non-natural land cover types was classified for the Project site: the non-natural land cover type consisted of disturbed habitat (+/- 5.6 ac) (Figure 2). This land cover type is characterized by the predominance of bare ground, non-native plant species, and other ruderal plant species. Disturbed habitat generally corresponds to areas that have been physically disturbed by previous human activity and are no longer recognizable as a native or naturalized vegetation association, but that continue to retain a soil substrate. Vegetation was sparse with infrequent redstem stork's bill (*Erodium cicutarium)* and cutleaf geranium (*Geranium dissectum*). Within the landscape easement, ornamental plantings consisted of redwood (*Sequoia sempervirens*) and interior live oak (*Quercus wislizni*). Attachment 1 presents representative photographs of disturbed habitat onsite.

Floral Diversity

A total of 5 species of plants was recorded on the site, redstem stork's bill (*Erodium cicutarium)*, cutleaf geranium (*Geranium dissectum*), knobcone pine (*Pinus attenuata*), redwood (*Sequoia sempervirens*) and interior live oak (*Quercus wislizni*). The relatively low abundance of plants and low diversity of native plants species reflects the Project site's disturbed environment and its proximity to adjacent developed areas.

Common Wildlife

Three common species of wildlife, American crow (*Corvus brachyrhynchos*), European starling (*Sturnus vulgaris)*, and rock pigeon (*Columba livia*), were observed within and adjacent to the Project site during the site visit. Given the highly disturbed nature of the site and the amount of development surrounding the site and in the site vicinity, wildlife use is expected to be limited to common species adapted to urban settings and human disturbance such as raccoon (*Procyon lotor*), Virginia opossum (*Didelphis virginiana*), and striped skunk (*Mephitis mephitis*).

Special-Status Plant Species

A total of 39 special-status plant species are known to occur within the Project quadrangle or eight surrounding quadrangles (CDFW 2019). No records of special-status plant species occur within the Project site (Figure 4). All of these species were removed from consideration based on lack of suitable soils or habitat, or because the project site is outside of the known elevation or geographic range for the species (Attachment 2). Due to the disturbed habitat and graded soils at the project site, suitable habitat for special-status plants does not occur.

Special-Status Wildlife Species

A total of 24 special-status wildlife species are known to occur within the Project quadrangle or eight surrounding quadrangles (CDFW 2019). No special-status wildlife species are known to occur within the Project site or in the immediate Project site vicinity (Figure 4). Of the 24 species documented in the Project vicinity, 23 were removed from consideration based on lack of suitable habitat or because the site is outside of the known geographic or elevation range for the species (Attachment 4). These species are not discussed further in this document. Trees onsite may provide potential habitat for sensitive bird species such as Swainson's hawk (*Buteo swainsoni*) and white-tailed kite (*Elanus leucurus*); however, the site is heavily disturbed, surrounded by development, and lacks foraging habitat such as extensive grassland and agricultural fields. Swainson's hawk exhibit nest fidelity, and no nests were observed during the 2019 site visit, along with the absence of foraging habitat the potential for Swainson's hawk to utilize the site is relatively low; furthermore,

Bio-1 Nesting birds would help to ensure no impacts to Swainson's hawk should any begin nesting in the ornamental trees present onsite.

Wetlands and Waters of the United States

Waters of the United States, including wetlands, are special habitats regulated by the U.S. Army Corps of Engineers (ACOE), and other state and federal agencies, in accordance with the federal Clean Water Act. Some isolated features that may not fall under the jurisdiction of the ACOE would potentially fall under the jurisdiction of the Regional Water Quality Control Board as waters of the state. Determining the extent of waters of the United States and waters of the state on a given site requires that a wetland delineation be prepared according to standards issued by the ACOE and submitted to the ACOE for review and verification.

No formal wetland delineation has been prepared for the project site. Potential sources of hydrology on the site are precipitation and irrigation of the adjacent ornamental landscaping. At the time of the January 2019 survey, topographic depressions present in the northeastern portion of the site had standing water present from recent rain events. No vegetation was present at that time; however, the visit was conducted outside the blooming season. A subsequent site visit conducted on April 08, 2019 found no wetland indicator plants present in previously ponded water; additionally, an existing drain was uncovered during the intervening time between site visits allowing water from the site to drain.

Along the northern end of the site there is an armored canal bordering Vaca Valley Parkway which contains riparian vegetation such as cattail and willow. The canal was lined with concrete at one time; however, over time sediment has collected in the channel allowing for the establishment of riparian vegetation within the channel. The channel is historically part of Horse creek and is classified by the National Wetland Inventory (NWI) (USFWS 2019b) as a blue line stream which eventually connects to upper Ulatis Creek and is likely a Jurisdictional feature.

CONSTRAINTS ANALYSIS

This section addresses potential constraints on future development of the Project site posed by special-status biological resources that were either observed during the site visit or that could potentially occur on the site in the future. Most special-status biological resources are protected or otherwise regulated by state and/or federal resource agencies; adverse impacts on these resources, should they occur, could potentially conflict with such regulations and also possibly be considered a significant impact under CEQA. For the purposes of this analysis, it is assumed that the entire Project site will be disturbed under the proposed new development.

Special-Status Plants

The disturbed land cover type present on the Project site does not provide suitable habitat for special-status plant species known to occur in the region. Because the project site does not support suitable habitat for special-status plant species, no impacts to these species are anticipated to occur and no constraints to the proposed project would occur associated with special-status plant species.

Special-Status Wildlife

While no nests or burrows were observed during the 2019 survey, the ornamental landscaped trees within the landscape easement of the Project site provide nesting habitat for native birds protected by the federal Migratory Bird Treaty Act and the California Fish and Game Code. Destruction or other adverse impacts to active nests with eggs or chicks during construction could be considered a violation of these regulations and be considered potentially significant impacts under CEQA. Implementation of the following recommended measures will minimize the potential for Project constraints by ensuring that no impacts to nesting birds would occur due to implementation of the Project.

BIO-1: Nesting Birds

Project construction could result in impacts to nesting birds, including the loss of active nests with eggs or fledglings if vegetation clearing and ground-disturbing activities occur during the nesting season (generally February 1 through August 30, depending on the species). All native migratory bird species are protected by the federal Migratory Bird Treaty Act; active nests of all birds are protected under California Fish and Game Code 3503, and individual raptors (and their active nests) are protected under 3503.5. A preconstruction nesting bird survey should be conducted by a qualified biologist no sooner than 10 days prior to construction and ground-disturbance activities, if such activities will occur during the nesting season, to determine if any native birds are nesting on or immediately adjacent to the site (including a 250-foot buffer for raptors). If any active nests are observed during surveys, a suitable avoidance buffer will be determined and flagged by the qualified biologist based on species, location, and planned construction activity. These nests would be avoided until the chicks have fledged and the nests are no longer active, as determined by the biologist. Dudek also recommends removing any habitat (i.e., trees) outside of the breeding bird season.

BIO-2: Jurisdictional Wetlands and Waters

The proposed construction options to the canal along Vaca Valley Parkway could result in impacts to a feature considered a potentially jurisdictional water of the U.S. and impacts to these features would be considered potentially significant under CEQA. Impacts to jurisdictional aquatic resources requires permitting from the regulatory agencies including Clean Water Act Section 404

Permit from the ACOE, Section 401 Water Quality Certification from the RWQCB, and Section 1602 Lake and Streambed Alteration Agreement from CDFW. The following table lists the regulatory agency to be consulted depending on the final construction alternative (free span bridge vs culvert).

Proposed Construction Alternative	Impact Location	Jurisdiction
Free Span Bridge	Above the Top of Bank (TOB)	CDFW (if tree removal required within or along TOB)
Con-Span Bridge	Below TOB	ACOE, RWQCB, CDFW (if tree removal required within or along TOB)
Culvert Bridge	Within the Ordinary High Water Mark	ACOE, RWQCB, CDFW (if tree removal required within or along TOB)

Notes: ACOE = U.S. Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and wildlife

If impacts to these regulated resources cannot be avoided, early consultation with the regulatory agencies is recommended to discuss and address potential impacts, permits that would be required from the agencies prior to the impacts, and measures required by the agencies that will be required to avoid, minimize and mitigate impacts.

Avoidance and Minimization Measures required under those permits would include, but are not limited to Sediment and erosion control best management practices (BMPs) which shall be utilized for all construction adjacent to the potentially jurisdictional canal. BMPs may include, but are not limited to, hydroseeding, installation of biodegradable straw wattles, covering stockpiles with tarps, and silt fencing.

Sensitive Natural Communities

No sensitive natural communities occur on the project site; therefore, no potential impacts to sensitive natural communities would occur with project implementation.

Wildlife Corridors and Nursery Sites

Due to the developed nature of the surrounding area, the project site does not function as a wildlife corridor. BIO-1 will ensure no impacts occur to potentially nesting bird species resulting from project implementation. As a result, implementation of the proposed project would not result in impacts to these resources.

City of Vacaville Tree Ordinance

The City of Vacaville tree ordinance, Section 14, Chapter 09.131, regulates development around trees within the City of Vacaville. If any trees on the project site are to be removed or trimmed, an application for a tree removal permit is required to be submitted to the City. The ordinance requires that tree replacement shall occur within 6 months per the City's planting requirements.

If you have any questions or concerns regarding the content of this letter report, please contact me at 760.334.1592 or pkeating@dudek.com.

Sincerely,



Paul Keating
Biologist

Att.: Figures
Figure 1 – Project Location
Figure 2 – Vegetation Communities and Land Cover Types
Figure 3 – Soils
Figure 4 – CNDDB 2-Mile Radius Map

Att. 1 – Representative Site Photographs
Att. 2 – Vascular Plant Species Observed On Site
Att. 3 – Wildlife Species Observed On Site
Att. 4– Table of Potentially Occurring Species

REFERENCES CITED

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ATTACHMENT 1

Representative Site Photographs

ATTACHMENT 1
Representative Photographs



1. Representative photograph of Project Site, looking East. 01/02/2019



2. Photograph of standing water with wracking in northeastern portion of site. 01/02/2019



3. Photograph of standing water in northeastern portion of site. 01/02/2019



4. Photograph of areas where standing water was present during January visit. No vegetation indicative of wetlands present.
04/08/2019



5. Existing culvert uncovered since January allowing water to drain from site. 04/08/2019



6. Existing armored canal along norther boundary of property with vegetation present.

ATTACHMENT 2

Vascular Plant Species Observed On Site

Attachment 2
Plant Species Observed on the Crane Creek Trail Project Site in Sonoma County, California

MONOCOTS

POACEAE—GRASS FAMILY

* *Avena fatua*—wild oat

* *Bromus hordeaceus*—soft brome

* *Festuca perennis*—perennial rye grass

EUDICOTS

APIACEAE—CARROT FAMILY

* *Foeniculum vulgare*—fennel

* *Torilis arvensis*—spreading hedgeparsley

ASTERACEAE—SUNFLOWER FAMILY

* *Carduus pycnocephalus*—Italian plumeless thistle

* *Lactuca serriola*—prickly lettuce

BRASSICACEAE—MUSTARD FAMILY

* *Brassica nigra*—black mustard

EUPHORBIACEAE—SPURGE FAMILY

Croton setiger—dove weed

* signifies introduced (non-native) species

ATTACHMENT 3

Wildlife Species Observed On Site

Attachment 3
Wildlife Species Observed on the Crane Creek Trail Project Site in Sonoma County, California

BIRDS

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, & ALLIES

Circus hudsonius—northern harrier

JAYS, MAGPIES & CROWS

CORVIDAE—CROWS & JAYS

Corvus brachyrhynchos—American crow

PIGEONS & DOVES

COLUMBIDAE—PIGEONS & DOVES

Zenaida macroura—mourning dove

THRUSHES

TURDIDAE—THRUSHES

Sialia mexicana—western bluebird

ATTACHMENT 4

Table of Potentially Occurring Species

Attachment 4. Special-Status Plant Species with Known or Potential Occurrence in the Vicinity of the Hyatt House Project in Vacaville Solano County, California.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Astragalus tener var. ferrisiae	Ferris' milk-vetch	None/None/1B.1	Meadows and seeps (vernally mesic), Valley and foothill grassland (subalkaline flats)/annual herb/Apr–May/5–245	**Not expected to occur.** No suitable vegetation present.
Astragalus tener var. tener	alkali milk-vetch	None/None/1B.2	Playas, Valley and foothill grassland (adobe clay), Vernal pools; alkaline/annual herb/Mar–June/0–195	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Atriplex cordulata var. cordulata	heartscale	None/None/1B.2	Chenopod scrub, Meadows and seeps, Valley and foothill grassland (sandy); saline or alkaline/annual herb/Apr–Oct/0–1835	**Not expected to occur.** No suitable vegetation present.
Atriplex depressa	brittlescale	None/None/1B.2	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland, Vernal pools; alkaline, clay/annual herb/Apr–Oct/0–1050	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Atriplex persistens	vernal pool smallscale	None/None/1B.2	Vernal pools (alkaline)/annual herb/June,Aug,Sep,Oct/30–375	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Centromadia parryi ssp. parryi	pappose tarplant	None/None/1B.2	Chaparral, Coastal prairie, Meadows and seeps, Marshes and swamps (coastal salt), Valley and foothill grassland (vernally mesic); often alkaline/annual herb/May–Nov/0–1380	**Not expected to occur**. No suitable vegetation present.
Chloropyron molle ssp. hispidum	hispid bird's-beak	None/None/1B.1	Meadows and seeps, Playas, Valley and foothill grassland; alkaline/annual herb (hemiparasitic)/June–Sep/0–510	**Not expected to occur**. No suitable vegetation present.
Cicuta maculata var. bolanderi	Bolander's water-hemlock	None/None/2B.1	Marshes and swamps Coastal, fresh or brackish water/perennial herb/July–Sep/0–655	**Not expected to occur.** No suitable vegetation present.
Delphinium recurvatum	recurved larkspur	None/None/1B.2	Chenopod scrub, Cismontane woodland, Valley and foothill grassland; alkaline/perennial herb/Mar–June/5–2590	**Not expected to occur**. No suitable vegetation present.
Downingia pusilla	dwarf downingia	None/None/2B.2	Valley and foothill grassland (mesic), Vernal pools/annual herb/Mar–May/0–1460	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Extriplex joaquinana	San Joaquin spearscale	None/None/1B.2	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland; alkaline/annual herb/Apr–Oct/0–2740	**Not expected to occur.** No suitable vegetation present.

Attachment 4. Special-Status Plant Species with Known or Potential Occurrence in the Vicinity of the Hyatt House Project in Vacaville Solano County, California.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Fritillaria liliacea	fragrant fritillary	None/None/1B.2	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland; Often serpentinite/perennial bulbiferous herb/Feb–Apr/5–1345	**Not expected to occur.** No suitable vegetation present.
Fritillaria pluriflora	adobe-lily	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; often adobe/perennial bulbiferous herb/Feb–Apr/195–2315	**Not expected to occur.** No suitable vegetation present.
Gilia capitata ssp. tomentosa	woolly-headed gilia	None/None/1B.2	Marshes and swamps (freshwater); Often in riprap on sides of levees./perennial rhizomatous herb (emergent)/June–Sep/0–395	**Not expected to occur.** No suitable vegetation present.
Gratiola heterosepala	Boggs Lake hedge-hyssop	None/SE/1B.2	Marshes and swamps (lake margins), Vernal pools; clay/annual herb/Apr–Aug/30–7790	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Hesperolinon breweri	Brewer's western flax	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; usually serpentinite/annual herb/May–July/95–3100	**Not expected to occur.** No suitable vegetation present.
Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	None/None/1B.2	Marshes and swamps (freshwater); Often in riprap on sides of levees./perennial rhizomatous herb (emergent)/June–Sep/0–395	**Not expected to occur**. No suitable vegetation present.
Isocoma arguta	Carquinez goldenbush	None/None/1B.1	Valley and foothill grassland (alkaline)/perennial shrub/Aug–Dec/0–65	Not **expected to occur**. No suitable vegetation present.
Lasthenia conjugens	Contra Costa goldfields	FE/None/1B.1	Cismontane woodland, Playas (alkaline), Valley and foothill grassland, Vernal pools; mesic/annual herb/Mar–June/0–1540	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance.
Lathyrus jepsonii var. jepsonii	Delta tule pea	None/None/1B.2	Marshes and swamps (freshwater and brackish)/perennial herb/May–July(Aug–Sep)/0–15	**Not expected to occur.** No suitable vegetation present.
Layia septentrionalis	Colusa layia	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; sandy, serpentinite/annual herb/Apr–May/325–3595	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present.
Legenere limosa	legenere	None/None/1B.1	Vernal pools/annual herb/Apr–June/0–2885	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance

Attachment 4. Special-Status Plant Species with Known or Potential Occurrence in the Vicinity of the Hyatt House Project in Vacaville Solano County, California.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Lepidium latipes var. heckardii	Heckard's pepper-grass	None/None/1B.2	Valley and foothill grassland (alkaline flats)/annual herb/Mar–May/5–655	**Not expected to occur.** No suitable vegetation present.
Leptosiphon jepsonii	Jepson's leptosiphon	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; usually volcanic/annual herb/Mar–May/325–1640	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present.
Lilaeopsis masonii	Mason's lilaeopsis	None/SR/1B.1	Marshes and swamps (brackish or freshwater), Riparian scrub/perennial rhizomatous herb/Apr–Nov/0–35	**Not expected to occur.** No suitable vegetation present.
Limosella australis	Delta mudwort	None/None/2B.1	Marshes and swamps (freshwater or brackish), Riparian scrub; Usually mud banks/perennial stoloniferous herb/May–Aug/0–10	**Not expected to occur.** No suitable vegetation present.
Navarretia leucocephala ssp. bakeri	Baker's navarretia	None/None/1B.1	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Valley and foothill grassland, Vernal pools; Mesic/annual herb/Apr–July/15–5710	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Neostapfia colusana	Colusa grass	FT/SE/1B.1	Vernal pools (adobe, large)/annual herb/May–Aug/15–655	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	FT/SE/1B.1	Vernal pools/annual herb/Apr–Sep/30–2475	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Plagiobothrys hystriculus	bearded popcornflower	None/None/1B.1	Valley and foothill grassland (mesic), Vernal pools margins; often vernal swales/annual herb/Apr–May/0–900	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Puccinellia simplex	California alkali grass	None/None/1B.2	Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Alkaline, vernally mesic; sinks, flats, and lake margins/annual herb/Mar–May/5–3050	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Sidalcea keckii	Keck's checkerbloom	FE/None/1B.1	Cismontane woodland, Valley and foothill grassland; serpentinite, clay/annual herb/Apr–May(June)/245–2135	**Not expected to occur**. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Stuckenia filiformis ssp. alpina	slender-leaved pondweed	None/None/2B.2	Marshes and swamps (assorted shallow freshwater)/perennial rhizomatous herb (aquatic)/May–July/980–7055	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present.

Attachment 4. Special-Status Plant Species with Known or Potential Occurrence in the Vicinity of the Hyatt House Project in Vacaville Solano County, California.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Symphyotrichum lentum	Suisun Marsh aster	None/None/1B.2	Marshes and swamps (brackish and freshwater)/perennial rhizomatous herb/(Apr)May–Nov/0–10	**Not expected to occur.** No suitable vegetation present.
Trifolium amoenum	two-fork clover	FE/None/1B.1	Coastal bluff scrub, Valley and foothill grassland (sometimes serpentinite)/annual herb/Apr–June/15–1360	**Not expected to occur.** No suitable vegetation present.
Trifolium hydrophilum	saline clover	None/None/1B.2	Marshes and swamps, Valley and foothill grassland (mesic, alkaline), Vernal pools/annual herb/Apr–June/0–985	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Tuctoria mucronata	Crampton's tuctoria or Solano grass	FE/SE/1B.1	Valley and foothill grassland (mesic), Vernal pools/annual herb/Apr–Aug/15–35	**Low potential to occur.** Potential wetlands on site not expected to support vernal pool species given the high level of disturbance
Viburnum ellipticum	oval-leaved viburnum	None/None/2B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest/perennial deciduous shrub/May–June/705–4595	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present.

SSC: Species of Special Concern (CDFW)
FP: Fully Protected (CDFW)
CRPR: California Rare Plant Rank (CNPS)
CRPR 1A: Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere
CRPR 1B: Plants Rare, Threatened, or Endangered in California and Elsewhere
CRPR 2A: Plants Presumed Extirpated in California, But More Common Elsewhere
CRPR 2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Sources

California Native Plant Society (CNPS). 2019. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society. Sacramento, CA. Accessed January 2019

California Department of Fish and Wildlife (CDFW). 2019. California Natural Diversity Database (CNDDB). Rarefind, Version 5 (Commercial Subscription). Accessed January 2019. Sacramento, California. Website https://map.dfg.ca.gov/rarefind/Login.aspx?

Attachment 4. Special-Status Wildlife Species with Known or Potential Occurrence in the Vicinity of the Hyatt House Project in Vacaville Solano County, California.

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Invertebrates				
Conservancy fairy shrimp	*Branchinecta conservatio*	Endangered/None	Larger, more turbid vernal pools, playa pools	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
vernal pool fairy shrimp	*Branchinecta lynchi*	Threatened /None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
valley elderberry longhorn beetle	*Desmocerus californicus dimorphus*	Threatened /None	Occurs only in the Central Valley of California, in association with blue elderberry (Sambucus nigra ssp. caerulea)	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
vernal pool tadpole shrimp	*Lepidurus packardi*	Endangered /None	Ephemeral freshwater habitats including alkaline pools, clay flats, vernal lakes, vernal pools, and vernal swales	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
Fish				
Delta smelt	*Hypomesus transpacificus*	Threatened / Endangered	Sacramento–San Joaquin Delta; seasonally in Suisun Bay, Carquinez Strait, and San Pablo Bay	**Not expected to occur.** No aquatic habitat present.
longfin smelt	*Spirinchus thaleichthys*	FC/ST, SSC	Aquatic, estuary	**Not expected to occur.** No aquatic habitat present.
Amphibians and Reptiles				
California red-legged frog	*Rana draytonii*	Threatened/None, SSC	California red-legged frogs occur in different habitats depending on their life stage, the season, and weather conditions. Breeding habitat includes coastal lagoons, marshes, springs, permanent and semi-permanent natural ponds, and ponded and backwater portions of streams. These frogs also breed in artificial impoundments including stock ponds, irrigation ponds, and siltation ponds. Creeks and ponds with dense growths of woody riparian vegetation, especially willows (*Salix* spp.) are preferred, although	**Not expected to occur.** Suitable aquatic habitat for this species is not present within or adjacent to the project area.

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
			the absence of vegetation at an aquatic site does not rule out the possibility of occupancy. Adult frogs prefer dense, shrubby or emergent riparian vegetation near deep (≥2 to 3 feet), still or slow moving water, especially where dense stands of overhanging willow and an intermixed fringe of cattail occur adjacent to open water.	
California tiger salamander	*Ambystoma californiense*	Threatened/Threatened	California tiger salamander (CTS) may be found in riparian and wet meadow habitats, but is more common in grasslands. CTS spend most of its life cycle underground in adjacent valley oak woodland or grassland habitat, primarily in rodent burrows. Breeding takes place following the first heavy winter rains. Temporary or permanent freshwater pools or slowly flowing streams are required for egg-laying and larval development. They appear to be absent in waters containing predatory game fish.	**Not expected to occur.** Suitable aquatic breeding habitat for this species is not present within or adjacent to the project area. No burrows or small mammal activity was observed during January 2019 survey.
foothill yellow-legged frog	*Rana boylii*	None/Candidate Threatened, SSC	Frequents rocky streams and rivers with rocky substrate and open, sunny banks, in forests, chaparral, and woodlands. Sometimes found in isolated pools, vegetated backwaters, and deep, shaded, spring-fed pools.	**Not expected to occur.** Suitable aquatic habitat for this species is not present within or adjacent to the project area.
western pond turtle	*Emys marmorata*	None/SSC	Western pond turtles use both aquatic and terrestrial habitats. They are found in rivers, lakes, streams, ponds, wetlands, ephemeral creeks, reservoirs, agricultural ditches, estuaries, and brackish waters. Western pond turtles prefer areas that provide cover from predators, such as vegetation and algae, as well as basking sites for thermoregulation. Adults tend to favor deeper, slow moving water, whereas hatchlings search for slow and shallow water that is slightly warmer. Terrestrial habitats are used for wintering and usually consist of burrows in leaves and soil. Western pond turtles also lay their eggs in terrestrial habitats. They are rarely found at altitudes above 1,500 meters.	**Not expected to occur.** Suitable aquatic habitat for this species is not present within or adjacent to the project area.
Birds				
tricolored blackbird	*Agelaius tricolor (nesting colony)*	BCC/PSE, Threatened	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberrry; forages in grasslands, woodland, and agriculture.	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
burrowing owl	*Athene cunicularia*	None/SSC	The burrowing owl utilizes abandoned ground squirrel burrows in	**Low potential to occur.**

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
			open habitats and grasslands, also disturbed areas. Diet consists of insects, small mammals, reptiles and amphibians. Commonly uses burrows on levees or mounds where there are unobstructed views of possible predators such as raptors or foxes.	Burrowing owl occurrences north of project site; however, no burrows or small mammal activity was observed during January 2019 survey.
Swainson's hawk	*Buteo swainsoni (nesting)*	None/ Threatened	Swainson's hawk spends the breeding season in the Central Valley of California and is commonly found in agricultural areas or open grasslands containing solitary trees for nesting. Diet consists of small mammals and reptiles.	**Moderate potential to occur.** Suitable nest trees present within the landscape easement. CNDDB occurrences within 2 miles.
northern harrier	*Circus cyaneus (nesting)*	None/SSC	Nests in open wetlands (marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes); also in drier habitats (grassland and grain fields); forages in grassland, scrubs, rangelands, emergent wetlands, and other open habitats	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
western yellow-billed cuckoo	*Coccyzus americanus occidentalis (nesting)*	FT, BCC/ Endangered	Nests in dense, wide riparian woodlands and forest with well-developed understories .	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
white-tailed kite	*Elanus leucurus (nesting)*	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands.	**Low potential to occur.** Suitable nest trees present within landscape easement; however, this species is not as adapted to disturbed areas as other raptors such as Swainson's hawk.
American peregrine falcon	*Falco peregrinus anatum (nesting)*	FDL, BCC/SDL, FP	Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows, croplands, especially where waterfowl are present	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
yellow-breasted chat	*Icteria virens (nesting)*	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	**Not expected to occur.** Suitable riparian habitat for this species is not present within or adjacent to the project area.

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
California black rail	*Laterallus jamaicensis coturniculus*	BCC/ST, FP	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
Mammals				
American badger	*Taxidea taxus*	None/SSC	American badger is most abundant in drier open stages of most shrub, forest and herbaceous habitats with friable soils. Will dig burrows for cover. Will reuse burrows occasionally but also may dig new burrows each night in summer. Diet consists of rodents, small mammals, reptiles, insects, birds and carrion.	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
pallid bat	*Antrozous pallidus*	None/SSC	Pallid bat occupies a variety of habitats including grassland, shrubland, woodland and forests from sea level up through mixed conifer forest. Roosts in caves, mines, crevices and occasionally hollow trees or buildings. Prefers open habitats for foraging.	**Not expected to occur.** Suitable foraging and roosting habitat for this species is not present within or adjacent to the project area.
Suisun shrew	*Sorex ornatus sinuosus*	None/SSC	Tidal and brackish marsh communities in the vicinity of San Pablo Bay and Suisun Bay.	**Not expected to occur.** Suitable habitat for this species is not present within or adjacent to the project area.
Townsend's big-eared bat	*Corynorhinus townsendii*	None/SSC	Townsend's big-eared bat is found throughout most of western North America. Hibernates and roosts in caves and mines near entrances, or cave like structures such as buildings or under decks. Forages in forested habitats, along open edges.	**Not expected to occur.** Suitable foraging and roosting habitat for this species is not present within or adjacent to the project area.
western red bat	*Lasiurus blossevillii*	None/SSC	Roosting habitat includes forests and woodlands from sea level up through mixed conifer forests. Roosts primarily in trees. Feeds over a wide variety of habitats including grasslands, shrublands, open woodlands and forests, and croplands. Not found in desert areas.	**Not expected to occur.** Suitable foraging and roosting habitat for this species is not present within or adjacent to the project area.

Status Legend:
SSC: Species of Special Concern (CDFW)
FP: Fully Protected (CDFW)
BGEPA: Bald and Golden Eagle Protection Act (CDFW)
Sources

CDFW (California Department of Fish and Wildlife). January 2019. California Natural Diversity Database (CNDDB). Rarefind, Version 5 (Commercial Subscription). Sacramento, California. Accessed January 2019.

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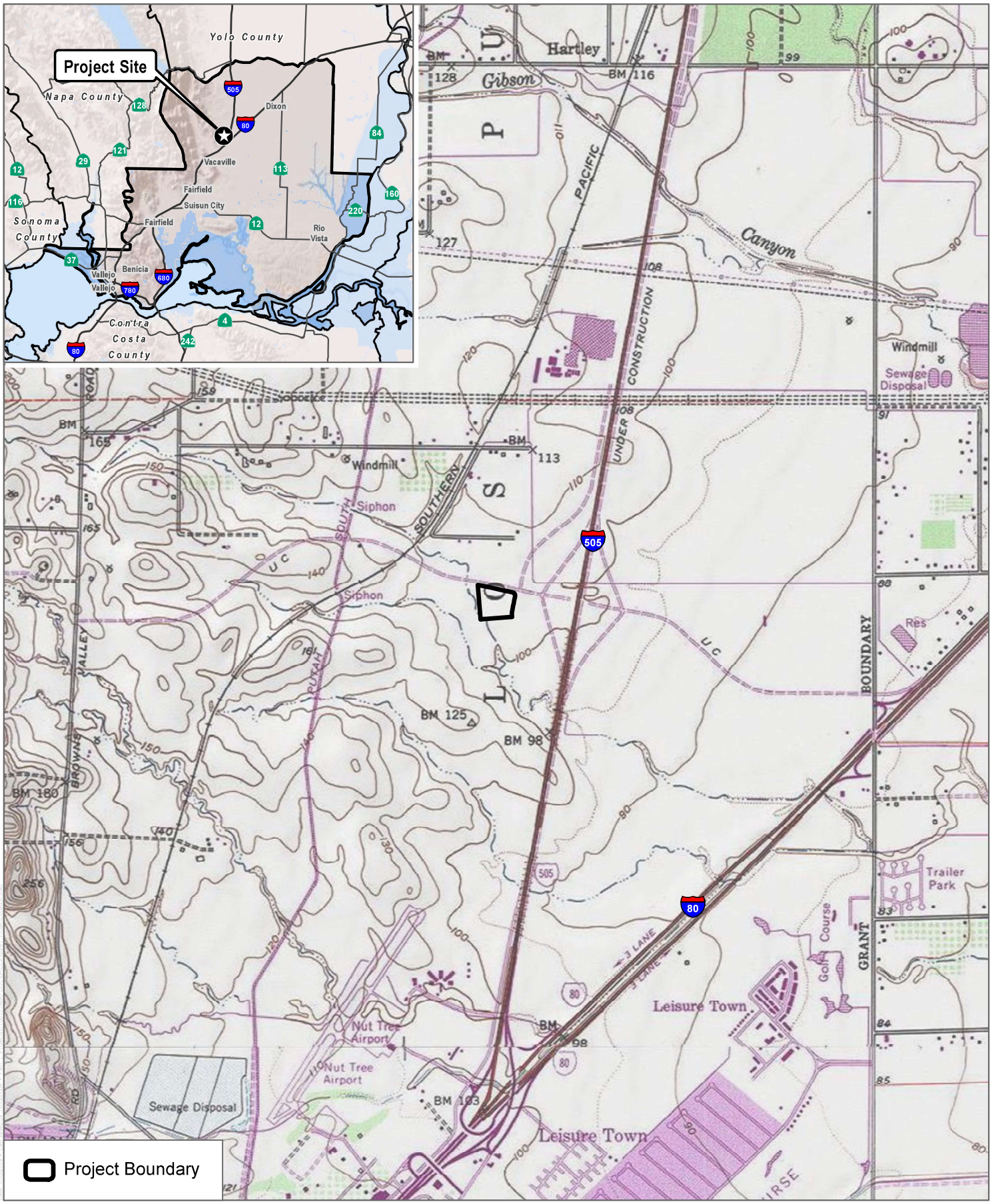
FIGURES



SOURCE: USGS 7.5-Minute Series Allendale Quadrangle

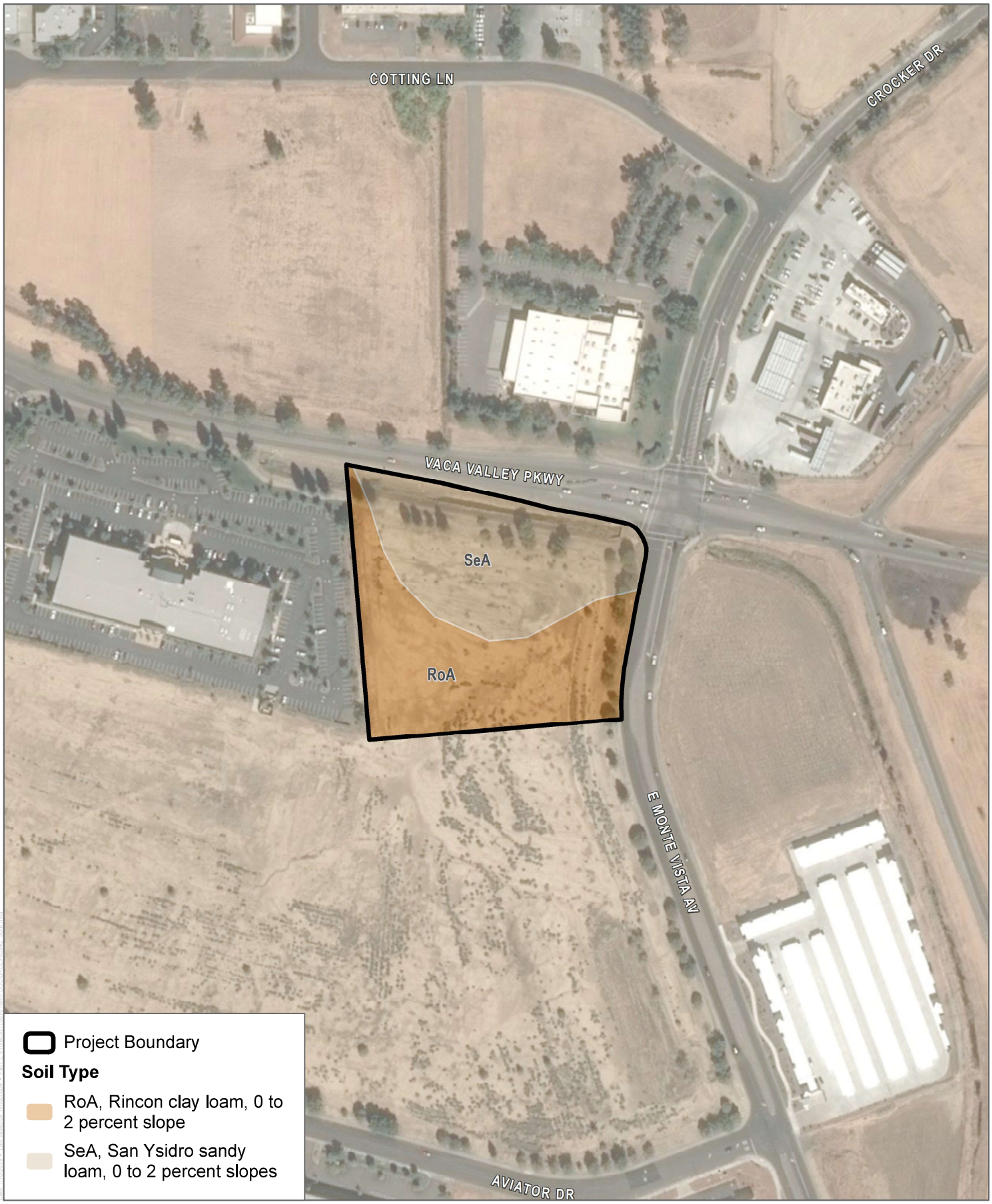
DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Hyatt House Plaza Project



SOURCE: USDA 2016; Solano County 2016

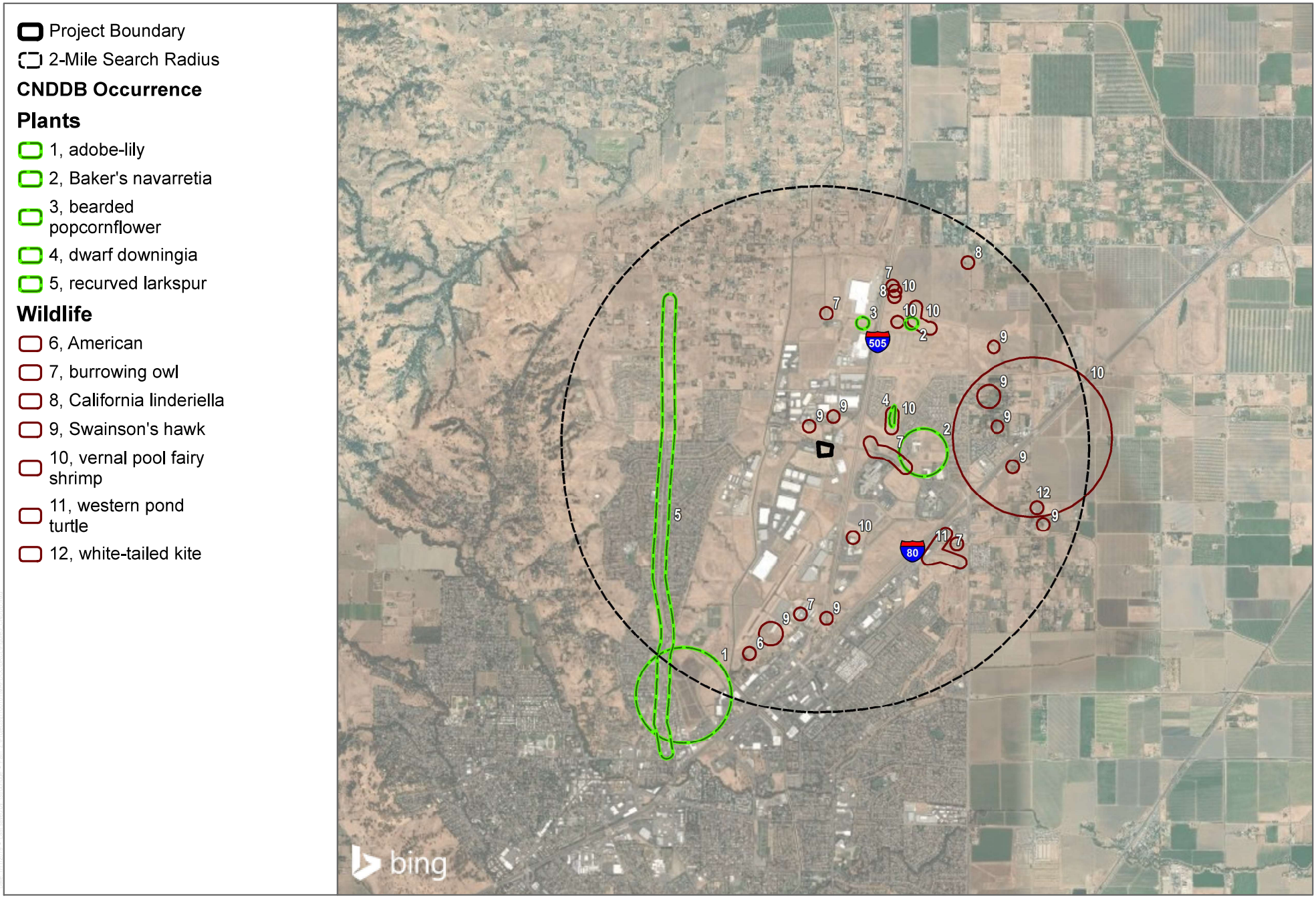
DUDEK

0 125 250 Feet

FIGURE 2

Project Soil Types

Hyatt House Plaza Project



SOURCE: USDA 2016; Solano County 2016; USFWS 2018

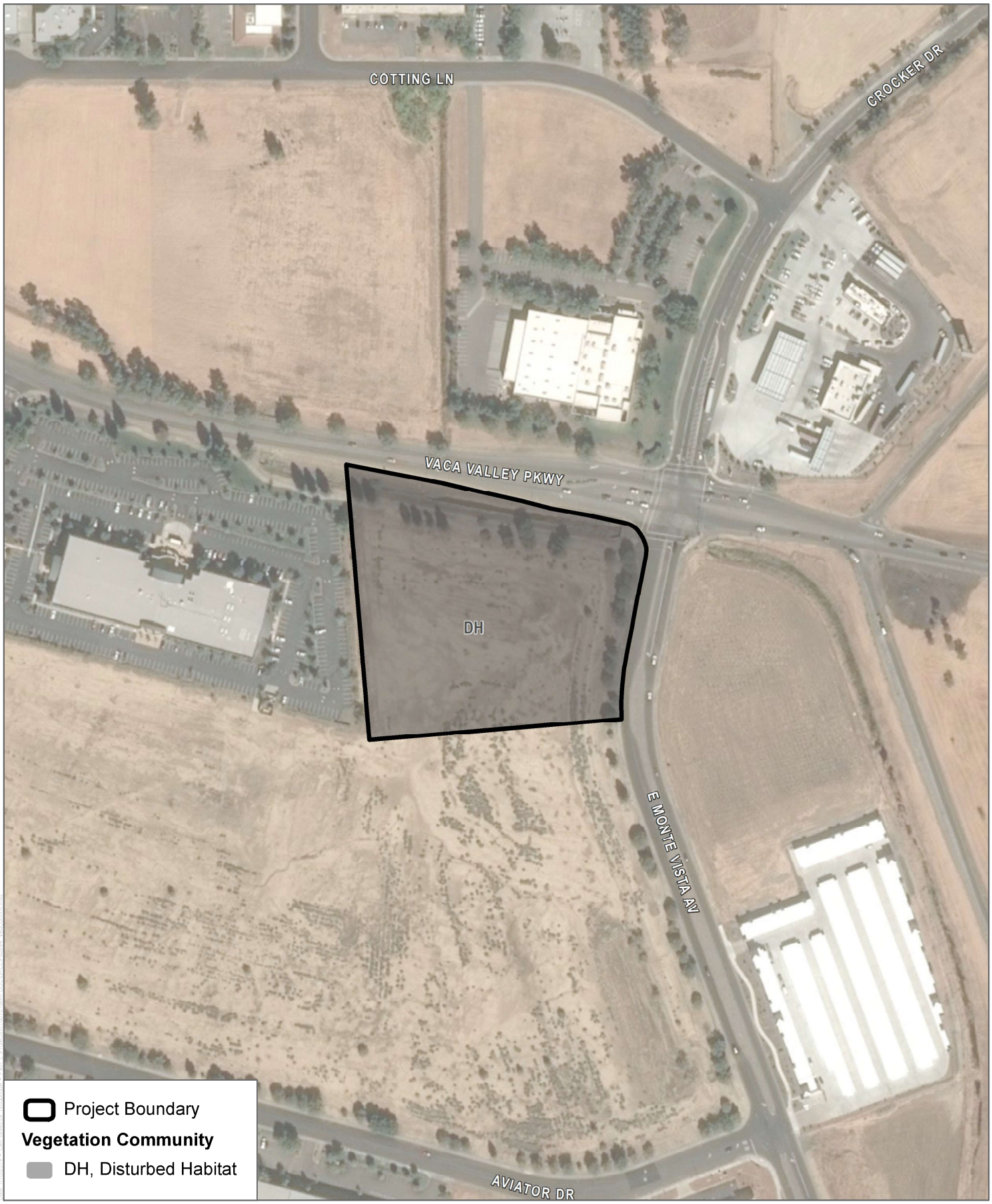
DUDEK

0 0.5 1 Miles

FIGURE 3

CNDDB Occurrences Within a 2-Mile Radius

Hyatt House Plaza Project



SOURCE: USDA 2016; Solano County 2016

DUDEK

0 125 250 Feet

FIGURE 4

Vegetation Communities and Land Cover Types

Hyatt House Plaza Project

Appendix C

Cultural Resources Report

853 LINCOLN WAY, SUITE 208
AUBURN, CALIFORNIA 95603
T 530.887.8500 F 530.887.1250

April 19, 2019 11777

Mr. Barton Brierley, AICP
Community Development Director
650 Merchant Street
Vacaville, CA 95696-6556

Subject: Cultural Resources Inventory Report for the Hyatt House Project, City of Vacaville, Solano County, California – Negative Findings

Dear Mr. Brierley:

This letter documents the negative cultural resources inventory conducted by Dudek for the Hyatt House Project (Project), located in the city of Vacaville, in central Solano County, California (Figure 1). The City of Vacaville (City) is lead agency responsible for compliance with the California Environmental Quality Act (CEQA). All cultural resource fieldwork and reporting for the Project has been conducted by archaeologists meeting the Secretary of the Interior's Professional Qualifications Standards. The present study documents the results of a search California Historical Resources Information System at the NWIC, located on the campus of Sonoma State University, a Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search, Assembly Bill (AB) 52 consultation, and an intensive pedestrian survey. No archaeological resources were identified within the Project site or immediate vicinity as a result of this study.

PROJECT LOCATION AND PRESENT USE

The Project site is located at the southwest corner of Vaca Valley Parkway and E. Monte Vista Avenue in the northwestern portion of the City of Vacaville (City) in the Vacaville-Golden Hills Business Park Policy Plan Area. The Project site is 5.43 acres and is bound by Vaca Valley Parkway to the north, E. Monte Vista Avenue to the east, undeveloped land to the south, and the existing Solano County Water Agency offices to the west and encompasses one parcel, Assessor Parcel Number (APN) 133-210-280. Surrounding uses include commercial uses to the west along Cessna Dive, undeveloped land and the Vacaville Reporter offices and Granite Expo building supply across Vaca Valley Parkway to the north, a Chevron gas station to the northeast, undeveloped land and Interstate-505 (I-505) to the east, and undeveloped land to the south. The Project site falls on public land survey system (PLSS) Section 3 of Township 6 North, Range 1 West, within *Allendale*, CA 7.5-minute USGS Quadrangle.

PROJECT DESCRIPTION

The Project includes development of a hotel, a free-standing drive thru restaurant, and a retail and office building on 4.42 developable acres, along with 242 parking spaces, and associated water, wastewater and storm drainage infrastructure (Figure 2). The four-story Hyatt House Hotel would be located in the western portion of the Project site and would have a maximum height of 61 feet and 4 inches at the top of crown. The drive thru restaurant building would be two stories tall and have a maximum height of 36 feet and 5.5 inches at the top of parapet. The two-story retail and office building would have a maximum height of 37 feet and 11.6 inches at the top of parapet.

REGULATORY CONTEXT

State of California

The California Register of Historical Resources

In California, the term "historical resource" includes "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (Public Resources Code (PRC) Section 5020.1(j)). In 1992, the California legislature established the California Register of Historical Resources (CRHR) "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1(a)). The criteria for listing resources on the CRHR, enumerated in the following text, were developed to be in accordance with previously established criteria developed for listing in the NRHP. According to PRC Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

(2) Is associated with the lives of persons important in our past

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

(4) Has yielded, or may be likely to yield, information important in prehistory or history

To understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

As described further in the following text, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

PRC Section 21083.2(g) defines "unique archaeological resource."

PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) define "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource." It also defines the circumstances when a project would materially impair the significance of a historical resource.

PRC Section 21074(a) defines "tribal cultural resources."

PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.

Commission (NAHC) to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor, punishable by up to 1 year in jail, to deface or destroy a Native American historic or cultural site that is listed or may be eligible for listing in the CRHR.

California Health and Safety Code Section 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code Section 7050.5 requires that if human remains are

discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains can occur until the County Coroner has examined the remains (Section 7050.5b). PRC Section 5097.98 also outlines the process to be followed in the event that remains are discovered. If the County Coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the California NAHC within 24 hours (Section 7050.5c). The NAHC will notify the Most Likely Descendant. With the permission of the landowner, the Most Likely Descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the Most Likely Descendant by the NAHC. The Most Likely Descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans. PRC Sections 21083.2(b)–(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; CEQA Guidelines Section 15064.5(b)). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource, even if it does not fall within this presumption (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

> (1) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

(2) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

(3) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA [CEQA Guidelines Section 15064.5(b)(2)].

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (Section 21083.2(a), (b), and (c)).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person

Impacts to nonunique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a nonunique archaeological resource qualifies as tribal cultural resource (PRC 21074(c); 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described in the following text, these procedures are detailed in PRC Section 5097.98.

California State Assembly Bill 52

Assembly Bill (AB) 52 of 2014 amended PRC Section 5097.94 and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that Tribal Cultural Resources (TCR) must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. Section 21074 describes a TCR as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe. A TCR is either:

- On the California Register of Historical Resources or a local historic register; Eligible for the California Register of Historical Resources or a local historic register; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1.

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the project, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource has a significant effect on the environment." Effects on tribal cultural resources should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to the PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (PRC Section 21080.3.2[a]). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

Native American Human Remains

State law (PRC Section 5097 et seq.) addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are

discovered during construction of a project; and established the Native American Heritage Commission (NAHC).

In the event that Native American human remains or related cultural material are encountered, Section 15064.5(e) of the CEQA Guidelines (as incorporated from PRC Section 5097.98) and California Health and Safety Code Section 7050.5 define the subsequent protocol. In the event of the accidental discovery or recognition of any human remains, excavation or other disturbances shall be suspended of the site or any nearby area reasonably suspected to overlie adjacent human remains or related material. Protocol requires that a county-approved coroner be contacted in order to determine if the remains are of Native American origin. Should the coroner determine the remains to be Native American, the coroner must contact the NAHC within 24 hours. The most likely descendent may make recommendations to the landowner or the person responsible for the excavation work, for means of treating, with appropriate dignity, the human remains and any associated grave goods as provided in PRC Section 5097.98 (14 CCR 15064.5(e)).

BACKGROUND RESEARCH

NWIC Records Search

A records search of the California Historical Resources Information System at the NWIC, located on the campus of Sonoma State University of the Project site and a 0.5 mile (804 feet) buffer was completed by NWIC staff on April 4, 2019. This search included their collections of mapped prehistoric, historic, and built environment resources, Department of Parks and Recreation Site Records, technical reports, and ethnographic references. Additional consulted sources included historical maps of the study area, the NRHP, the CRHR, the California Historic Property Data File, and the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility. The results of the records search are presented in Confidential Appendix A.

Previously Conducted Cultural Resource Studies

The NWIC records indicate that twenty-one (21) cultural resources investigations have been conducted within a half (0.5)-mile of the study area (Table 1). Of these, three studies have included all or a portion of the Project site (S-005156, S-005162, and S-051227), the remaining 19 studies have been conducted within the 0.5 mile records search area. The three overlapping studies are briefly summarized below.

Table 1. Cultural Resources Investigations within 0.5-Mile of the Project Site

NWIC Report Number	Author: Company	Year	Title	Proximity to Project site
S-005156	Adan E. Treganza, Robert L. Edwards, and Thomas F. King: San Francisco State College	1965	Archeological Survey and Excavation Along the Tehama-Colusa Canal, Central California	Overlapping
S-005162	Miley Paul Holman: Holman & Associates	1977	Archaeological reconnaissance of the 352 acre parcel on the northern edge of the City of Vacaville, California (letter report)	Overlapping
S-007675	Dana McGowan Seldner: Archeological Study Center, Sacramento State University	1985	A Preliminary Archeological Study of the Northeast Sector, Vacaville, Solano County, California.	Outside
S-009124	John Holson and Lori Hager: Hager/Holson and Associates	1987	A Cultural Resources Study for the Vaca Dixon-Moraga 230 kV Transmission Line Reconductoring Project, Contra Costa, Napa, and Solano Counties, California	Outside
S-015510	Eleanor H. Derr: Cultural Resources Unlimited	1993	A Cultural Resources Study for North Village Development Project EIR, Solano County, California	Outside
S-021305	Nina Ilic and David Chavez: David Chavez & Associates	1998	Archaeological Survey Report, 04-SOL-505 PM 1.6 EA 0S9601, Repair of Three Slipouts Adjacent to the Shoulder of Northbound Route 505	Outside
S-021719	Miley Paul Holman: Holman & Associates	1998	Archaeological Field Inspection of the West Village Project, Vacaville, Solano County, California (letter report)	Outside
S-032886	: Jones & Stokes	2007	Cultural Resources Inventory of the Alta-ACSM Parcels, City of Vacaville, Solano County, California	Outside
S-034108	George McKale, Beccah Landman, and Andy Grass: LSA Associates, Inc.	2007	A Cultural and Paleontological Resources Study for the Nut Tree Airport Project, Solano County, California	Outside
S-034108	Susan K Stiattor: Office of Historic Preservation	2008	FAA080128A; Finding of Effect for the Proposed Acquisition of 141 Acres of Land Adjacent to the Nut Tree Airport, Vacaville, CA	Outside
S-035939	Carolyn Losee: Archaeological Resources Technology	2009	Cultural Resources Investigation for Verizon Site #181718 "North Vacaville", Vaca Valley Parkway, Vacaville, Solano County, California 95688	Outside

NWIC Report Number	Author: Company	Year	Title	Proximity to Project site
S-037587	: Analytical Environmental Services	2010	Historic Properties Study, Vaca Valley Parkway/I-505 Interchange Area Projects	Outside
S-045222	Katherine Anderson: ESA	2014	Cultural Resources Inventory and Evaluation Report of the Nut Tree Airport Runway Improvement Project, Solano County, CA	Outside
S-045222	R. Scott Baxter: ESA	2012	Nut Tree Airport Master Plan Update Project, Solano County, CA	Outside
S-045222	Carol Roland-Nawi, Camille Garibaldi, Mark A. McClardy, and Debbie Pilas-Treadway: Office of Historic Preservation; U.S. Department of Transportation; Native American Heritage Commission	2014	FAA_2014_0224_001: Runway Shift, Taxiway Extension and Realignment of Associated Navigational Aids, Nut Tree Airport, Vacaville	Outside
S-046139	Jason Coleman: Solano Archaeological Services	2015	Cultural Resources Survey Report for the Superior Self Storage Project, City of Vacaville, Solano County, California	Outside
S-046139	Jason A. Coleman: Solano Archaeological Services	2015	Addendum: Cultural Resources Survey Report for the Superior Self Storage Project, City of Vacaville, Solano County, California (letter report)	Outside
S-048917	Jason A. Coleman: Solano Archaeological Services	2016	Cultural Resources Survey Report for the De La Torre Project, Solano County, California	Outside
S-048930	Scott Crull: Unknown	2014	The History and Archaeology of the Vaca Valley Railroad; the Associated Company Towns and Remnant Landmarks in Solano and Yolo Counties: 1869-1992, Along with the Historical Townsite of the Tancred Colony	Outside
S-051227	Jason A. Coleman: Solano Archaeological Services	2018	Cultural Resources Inventory Report, Cessna Aviation Project, City of Vacaville, Solano County, California	Overlapping
S-051229	Jason A. Coleman: Solano Archaeological Services	2018	Cultural Resources Inventory Report, LogistiCenter at Vacaville Project, City of Vacaville, Solano County, California	Outside

S-005156

Archeological Survey and Excavation Along the Tehama-Colusa Canal, Central California (Treganza et al. 1965) reports the results of a background research, archaeological surveys, and site excavations

conducted between 1963 and 1965. All work was done along the route of the Tehama-Colusa Canal, which runs from Red Bluff, in Tehama County to Vallejo, south of Vacaville, in Solano County. The study overlaps the Project site in its entirety. Nineteen archaeological sites were located during the archaeological survey and two sites were recommended for further excavation. No sites identified during this study were within or near the Project site.

S-005162

Archaeological reconnaissance of the 352 acre parcel on the northern edge of the City of Vacaville, California (letter report (Holman 1977) Reports the results of a background research and an archaeological survey conducted in December of 1977 in support of a development project in northern Vacaville. The study overlaps the Project site in its entirety. No cultural resources were identified as a result of this study.

S-055129

Cultural Resources Inventory Report, Cessna Aviation Project, City of Vacaville, Solano County, California (Coleman 2018) reports the results of a records search, background research and an archaeological survey in support of the Cessna Aviation Project. The study overlaps the southern border of the Project site. No cultural resources were identified as a result of this study and no further archaeological work was recommended.

Previously Identified Cultural Resources

NWIC records indicate that one cultural resource has been previously recorded resource has been identified within the 0.5-mile records search area, this resource does not overlap the Project site. The resource includes P-48-001025 and consists of the Vaca Valley Railroad Route, which ran roughly north-south approximately 0.29 miles to the west of the Project site. The route once ran from Elmira to Vacaville and today consists of only a trail or dirt road (Crull and Ramirez 2014)

REVIEW OF HISTORIC AERIALS AND TOPOGRAPHIC MAPS

Dudek consulted historic maps and aerial photographs to understand development of the Project site and immediate vicinity. Topographic maps are available for the following years: 1908, 1917, 1922, 1944, 1955, 19559, 1965, 1969, 1974, 1981, 2012, and 2015 (NETR 2019a). Historic Aerial maps are available for the following years: 1948, 1968, 1993, 2005, 2009, 2010, 2012, and 2014 (NETR 2019b).

The first topographic map showing the Project site dates to 1908 and shows the area as hilly and undeveloped. The only structure within the general area is the Southern Pacific Railroad which ran

in a north-south route to the west of the Project site, along the Vaca Valley Railroad Route. The 1908 map indicates that the town of Vacaville had already begun to be developed to the south, around the intersection of East Monte Vista Avenue and Depot Street. There are no changes visible on topographic maps until 1947, when some new streets and structures were present to the west of the Southern Pacific Railroad line, though the Project site and general vicinity were still undeveloped at this time. Between 1947 and 1954 there was increased development in the general area, including the construction of the I-505 and the I-80 freeways to the east of the Project site, though the Project site and immediate vicinity were still undeveloped. The topographic maps from the 1960s, 1970s and 1980s show increased development in subdivided areas to the east, west, and south, but the Project site and the immediate vicinity remained undeveloped. The South Putah Canal was built between 1967 and 1969 and Vaca Valley Parkway was laid out between 1969 and 1975. Between 1988 and 2012 there was an extensive amount of development in the area immediately surrounding the Project site and it was during this time when the majority of the streets and commercial buildings in the nearby vicinity of the Project site were built. There are no changes visible on the 2015 topographic map.

Historic aerials from 1968 show the Project site as undeveloped land surrounded by agricultural fields. The Project site does not appear to be cultivated in the 1968 aerial; however, it does appear to have some grading scars throughout the area. There are two small streams running roughly northwest-southeast along the southwest corner of the Project site. In the 1968 aerial, the Southern Pacific Railway and the South Putah Canal are both visible to the west of the Project site and the I-505 is visible to the east. Between 1968 and 1993 all of the streets surrounding the Project site and in the immediate vicinity were laid out. The commercial park to the north and south of the Project site and the residential subdivision west of Allison Parkway were built by 1993. The 1993 aerial shows that the Project site was still undeveloped at this time. Between 1993 and 2005 several new commercial developments south of Piper Drive were built, more residential developments were built north of Vaca Valley Parkway, and the Solano Water District Agency offices were built adjacent to the Project site along the western border. Aerials from the remainder of the 2000s and the early 2010s show a few new developments in the general area though they do not show any changes to the Project site, which has never been developed.

NAHC AND TRIBAL CORRESPONDENCE

Dudek contacted the Native American Heritage Commission (NAHC) on April 4, 2019 and requested a review of the Sacred Lands File (SLF) review. The NAHC replied via email on March 27, 2019 stating that the SLF search was completed with negative results. Because the SLF search does not include an exhaustive list of Native American cultural resources, the NAHC suggested contacting Native American individuals and/or tribal organizations who may have direct

knowledge of cultural resources in or near the Project. No additional tribal outreach was conducted by Dudek.

The Project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to "tribal cultural resources" as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the Project. In compliance with AB 52, the City has contacted all NAHC-listed traditionally geographically affiliated tribal representatives that have requested project notification. The record of any consultation occurring as a result of this process will be on file with the City and included in the environmental document prepared for this Project.

CULTURAL RESOURCE SURVEY

Intensive-Level Pedestrian Survey

Dudek archaeologist Brittany Lovejoy conducted a survey of the Project site on April 18, 2019. The survey was conducted to identify and record any cultural resources that may occur in the Project site. The survey was conducted using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. Survey transects were spaced 15 meters wide and oriented east-west across the Project site. The ground surface and naturally occurring subsurface exposures was examined for the presence of prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools), historical artifacts (e.g., metal, glass, ceramics), sediment discolorations that might indicate the presence of a cultural midden, and depressions and other features that might indicate the former presence of structures or buildings. No cultural resources were identified during the intensive pedestrian survey.

Ground visibility within the Project site was good, providing for more than four-fifths of the ground surface to be directly observed. The site has limited vegetation, though several small trees and bushes are present along the northern, eastern, and western perimeters. The observed soils within the Project site are characterized by brown loam with naturally occurring gravel. This is generally consistent with soil information on file with the United States Department of Agriculture (USDA), which indicates that native soils within the Project site consist of Rincon Clay loam, characterized by dark gray to very dark gray silty clay loam and San Ysidro sandy loam, characterized by light brownish gray to brown fine sandy loam (UC Davis 2019; USDA 2019). There is no existing development within the Project site, though a concrete path runs along the northern and eastern perimeter, and it is likely that the area has been subject to previous grading.

The area appears to have been used for recreation bicycle or dirt-bike riding, indicated by tire marks throughout the area.

SENSITIVITY ANALYSIS

Archaeological Sensitivity

No archaeological resources were identified within the Project site through the CHRIS records search conducted at the NWIC, a NAHC Sacred Lands File search, or intensive pedestrian survey. The NWIC records indicate three previously conducted technical studies overlap a the Project site, none of which identified cultural resources within the Project site or in the immediate vicinity. Grading associated with agricultural activities in the early twentieth century as well as more recent recreational uses have impacted surficial soils. These grading activities would have impacted any surficial archaeological deposits that may have been present. The South Putah Canal runs to the west of the Project site; however, historic aerials indicate that prior to channelization of the canal there were natural streams immediately to the southwest of the Project site. While proximity to these drainages does suggest that the area may have contained naturally occurring resources considered useful to prehistoric Native American inhabitants, such drainages were widely distributed throughout the region, and would not likely have represented a specific elevated use relative to other similar areas.

Historic topographic maps and aerials indicate that the Project site has never been developed, though it appears to have been used for agricultural purposes prior to 1968. Since the area has never been developed, there is a low probability that buried historic-era features such as structural remnants or refuse deposits are present within the Project site. The location of the Project site near natural features such as water sources and biodiverse environments, which could have provided resources or other uses to prehistoric peoples. Additionally, the formation of alluvial soils in the area are suitable for buried cultural resources to form and remain present. However, no prehistoric resources have been identified within the Project site or a surrounding 0.5-area. Surface resources have been impacted by agricultural activities in the early twentieth century. No cultural resources were observed during pedestrian survey. Based on the results of this study, the potential for unanticipated surface or buried prehistoric-era archaeological deposits to exist within the Project site is considered to be low.

SUMMARY AND MANAGEMENT CONSIDERATIONS

No archaeological resources were identified within the Project site or immediate vicinity as a result of intensive pedestrian survey, NAHC Sacred Lands File search, or the CHRIS records search. As a result of this study, there is low likelihood of encountering unanticipated historic-era or

prehistoric-era archaeological resources during project activities. No additional archaeological efforts are recommended to be required beyond standard considerations for the management of unanticipated resources. Management recommendations to reduce potential impacts to unanticipated archaeological resources and human remains during construction activities are provided below. With the implementation of these measures, impacts to archaeological and paleontological resource as a result of the Project will be less than significant.

Unanticipated Archaeological Resources

All construction crew should be alerted to the potential to the potential to encounter archaeological material. In the event that cultural resources (sites, features, artifacts, or fossilized material) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified specialist, meeting the Secretary of the Interior's Professional Qualification Standards, can evaluate the significance of the find and determine whether additional study is warranted. Prehistoric archaeological deposits may be indicated by the presence of discolored or dark soil, fire-affected material, concentrations of fragmented or whole freshwater bivalves shell, burned or complete bone, non-local lithic materials, or the characteristic observed to be atypical of the surrounding area. Common prehistoric artifacts may include modified or battered lithic materials; lithic or bone tools that appeared to have been used for chopping, drilling, or grinding; projectile points; fired clay ceramics or non-functional items; and other items. Historic-age deposits are often indicated by the presence of glass bottles and shards, ceramic material, building or domestic refuse, ferrous metal, or old features such as concrete foundations or privies. Depending upon the significance of the find under CEQA (14 CCR 15064.5(f); PRC Section 21082), the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work, such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Unanticipated Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the county coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the county coroner has determined, within 2 working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the county coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours.

Should you have any questions relating to this report and its findings please do not hesitate to contact me directly.

Respectfully Submitted,

Adam Giacinto, MA, R.P.A.
Archaeologist
DUDEK
Office: (530) 863- 4653
Email: agiacinto@dudek.com

cc: Erica Nicolay, Christine Kronenberg, Dudek

Att: Figure 1. Project Location Map
Figure 2. Site Map
Appendix A (Confidential): NWIC Records Search Information (Confidential)
Appendix B: NAHC Sacred Lands File Search Results

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NATIONAL ARCHAEOLOGICAL DATA BASE INFORMATION

Authors:	Adam Giacinto, M.A., RPA and Erica Nicolay, MA
Firm:	Dudek
Client/Project Proponent:	J&P Hospitality
Report Date:	4/19/2018
Report Title:	Cultural Resources Inventory Report for the Hyatt House project, City of Vacaville, Solano County, California – Negative Findings
Type of Study:	Cultural Resources Inventory
New Sites:	None
Updated Sites:	None
USGS Quad:	Allendale 7.5-minute
Acreage:	5.43 acres
Permit Numbers:	None
Key Words:	Negative survey; Vacaville; CEQA

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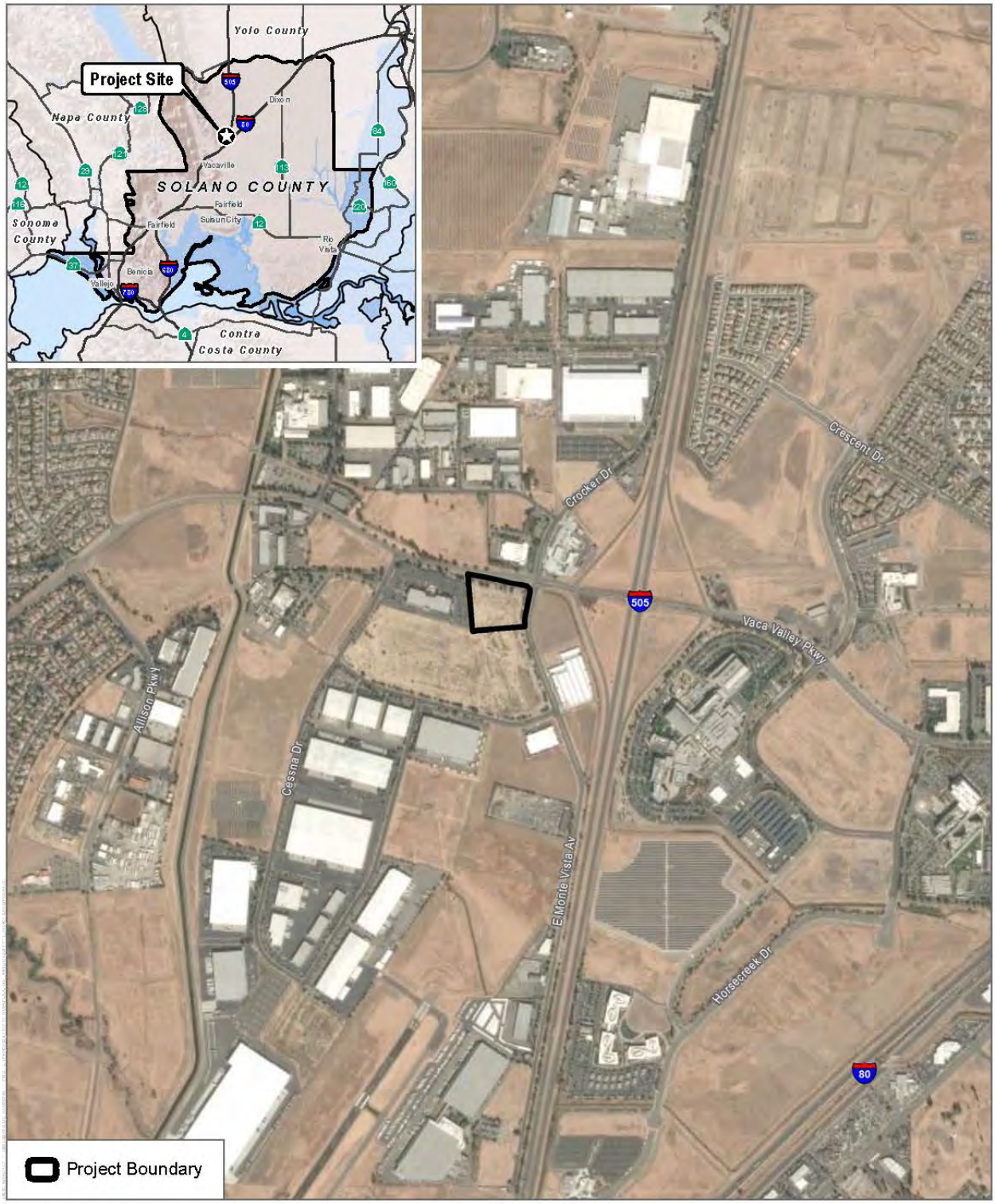

SOURCE: Bing Maps 2019

DUDEK 0 600 1,200 Feet

FIGURE 1
Project Location
Hyatt House Project

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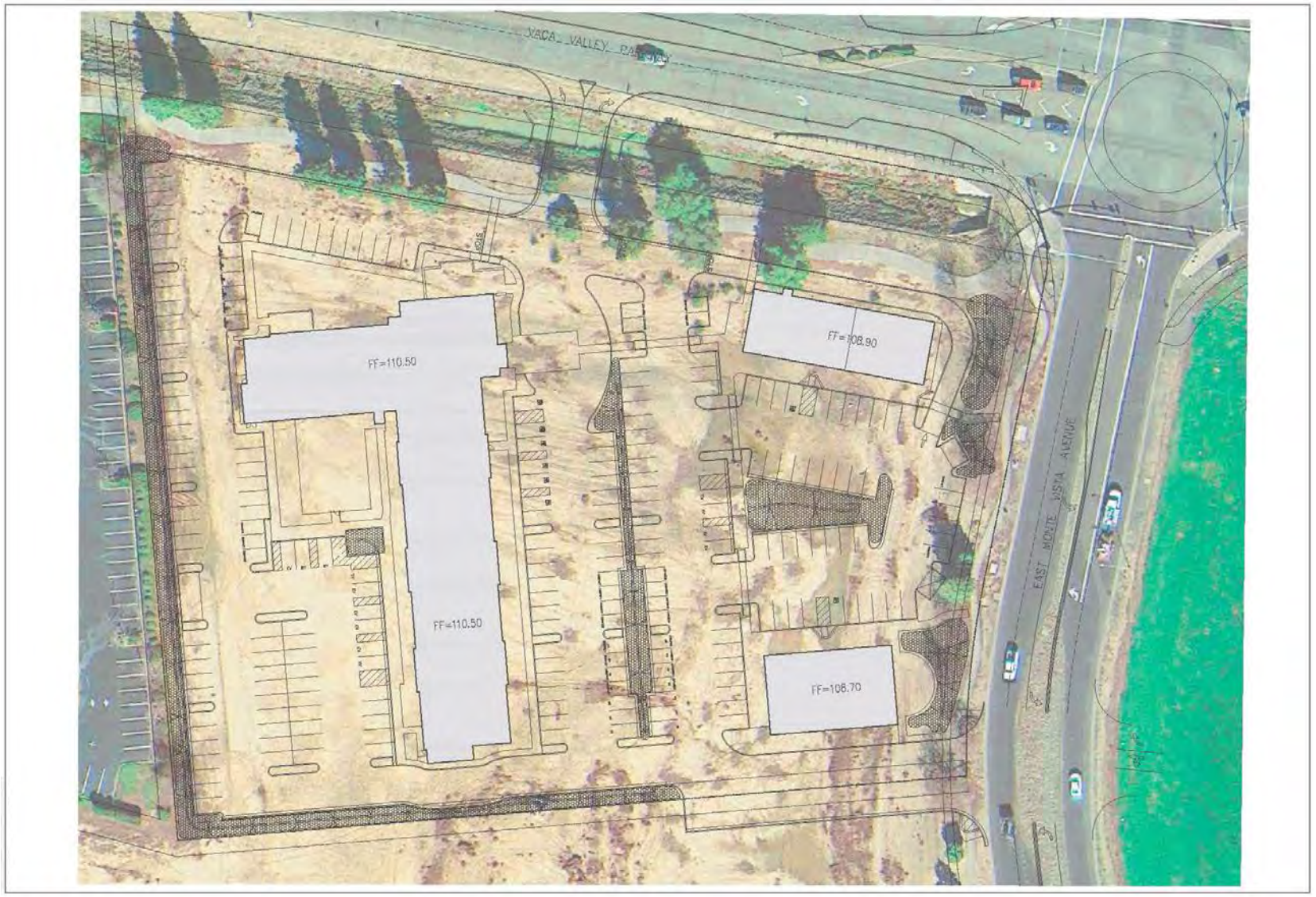

SOURCE: PEI 2018

FIGURE 2
Site Plan
Hyatt House Project

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APPENDIX A (CONFIDENTIAL)

NWIC Records Search Results

APPENDIX B

NAHC Sacred Lands File Search

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

March 27, 2019

William Burns
Dudek

VIA Email to: wburns@dudek.com

RE: Vaca Valley Hotel Project, Solano County

Dear Mr. Burns:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn
Associate Governmental Program Analyst

Attachment

Native American Heritage Commission
Native American Contacts List
3/27/2019

Cortina Rancheria - Kletsel Dehe Band of Wintun Indians
Charlie Wright, Chairperson
P.O. Box 1630 Wintun / Patwin
Williams ,CA 95987
(530) 473-3274 Office
(530) 473-3301 Fax

United Auburn Indian Community of the Auburn Rancheria
Gene Whitehouse, Chairperson
10720 Indian Hill Road Maidu
Auburn ,CA 95603 Miwok
bguth@auburnrancheria.com
(530) 883-2390 Office
(530) 883-2380 Fax

Yocha Dehe Wintun Nation
Anthony Roberts, Chairperson
P.O. Box 18 Wintun (Patwin)
Brooks ,CA 95606
aroberts@yochadehe-nsn.gov
(530) 796-3400
(530) 796-2143 Fax

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code,Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed:
Vaca Valley Hotel Project.

Appendix D

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT
of
APN 0133-210-280
Vaca Valley Parkway and East Monte Vista Avenue
Vacaville, Solano County, California

for

J&P HOSPITALITY

By

KC ENGINEERING COMPANY

Project No. VV4648

1 February 2019

865 Cotting Lane, Suite A
Vacaville, California 95688
(707) 447-4025, fax 447-4143

8798 Airport Road
Redding, California 96002
(530) 222-0832, fax 222-1611

KC ENGINEERING COMPANY
A SUBSIDIARY OF MATERIALS TESTING, INC.

Project No. VV4648
1 February 2019

J&P Hospitality
151 Crocker Drive
Vacaville, California 95688

Subject: APN 0133-210-280
Vaca Valley Parkway and East Monte Vista Avenue
Vacaville, Solano County, California
PHASE I ENVIRONMENTAL SITE ASSESSMENT

In accordance with your authorization, **KC ENGINEERING COMPANY** has completed a Phase I Environmental Site Assessment (ESA) of the property identified as Assessor's Parcel Number (APN) 0133-210-280, located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in Vacaville, Solano County, California. The approximate 5.43-acre property currently consists of vacant land.

The accompanying report presents our conclusions and recommendations based on our investigation and review. Should you have any questions relating to the contents of this report, or should you require additional information, please contact our office at your convenience.

Reviewed by:

David Cymanski, P.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
DAVID V. CYMANSKI
No. C 51421
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

Respectfully Submitted,
KC ENGINEERING CO.

Amy E. Lee, R.E.P.A. #157732
Environmental Assessor

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Plate I Vicinity Map
Plate II Site Sketch
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Appendix A Site Photographs
Appendix B User Provided Information Questionnaire
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SUMMARY

This Phase I ESA addresses Solano County APN 0133-210-280, located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in Vacaville, Solano County, California. Historical research conducted for this assessment indicates that the property consisted of undeveloped land from 1908 to 1978. A stream channel was located on the southwest corner of the property from at least 1937 to 1978. By 1984 the property consisted of vacant graded land, and a drainage channel was located along the north end of the property. The property remained vacant land with paved sidewalks along the north and east ends, and a drainage channel along the north end from 1993 to 2019. No buildings, improved roads, orchards, or row crops have been located on the property in the past. No significant data gaps or data failures were encountered during the course of this assessment.

The property currently consists of vacant land with paved sidewalks along the north and east ends, and a drainage channel along the north end. Regulated quantities of hazardous materials including underground storage tanks (USTs), aboveground storage tanks (ASTs), and 55-gallon drums of chemicals were not observed to be used, stored, or disposed of on the property. No current or past uses likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products were identified during the site reconnaissance. No obvious recognized environmental conditions (RECs) were observed for the property during the recent site reconnaissance.

The subject property was not identified as a hazardous materials use, storage, disposal, or release site on any of the 131 databases reviewed for this assessment. Institutional controls and engineering controls were not identified for the subject property. Oil and gas wells were not identified on the subject property. The search of regulatory lists for hazardous materials sites in the vicinity of the property did not identify any obvious potential off-site sources of contamination within the ASTM-specified approximate minimum search distance of the subject property. No obvious RECs for the property were noted from the 131 databases reviewed.

Based on the research conducted for this assessment, it is **KC ENGINEERING COMPANY's** opinion that no obvious RECs, historical RECs, or controlled RECs were identified during the course of this assessment. No obvious conditions indicative of releases or threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products on, at, in, or to the subject property were identified during the course of this assessment. No further environmental investigation of the subject property appears warranted at this time. This opinion is based on the information provided to **KC ENGINEERING COMPANY** during the course of this assessment. Any data that is missing or was withheld from **KC ENGINEERING COMPANY** could alter our opinion.

INTRODUCTION

This report presents the findings of **KC ENGINEERING COMPANY's** Phase I ESA conducted for APN 0133-210-280, located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in Vacaville, Solano County, California. The property currently consists of vacant land.

The purpose of this assessment is to permit the client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. This assessment is intended to constitute "all appropriate inquiries (AAI) into the previous ownership and uses of the property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C.§9601(35)(B)". AAI is only the first step to establishing the ability to qualify for CERCLA liability protection – "continuing obligations" apply after purchase.

This evaluation has been performed at your request to identify, to the extent feasible pursuant to the processes prescribed in ASTM E 1527-13, RECs in connection with the subject property. The term "recognized environmental conditions" means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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. Hazardous substances are defined pursuant to CERCLA 42 U.S.C.§9601(14), as interpreted by EPA regulations and the courts. A controlled REC is defined as "a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls". A historical REC is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls".

KC ENGINEERING COMPANY performed this Phase I ESA for J&P Hospitality, in accordance with ASTM Standard E 1527-13, *Standard Practice for Environmental Site Assessments*. This report is prepared for the sole use and benefit of J&P Hospitality, and is based in part upon data provided by J&P Hospitality and its representatives. Neither this report, nor any of the information contained herein, shall be used or relied upon for any other purpose by any person or entity other than J&P Hospitality.

Scope of Services

KC ENGINEERING COMPANY's services were performed in accordance with our proposal dated 10 January 2019 and in general conformance to the guidelines presented in ASTM Standard E 1527-13, *Standard Practice for Environmental Site Assessments*. **KC ENGINEERING COMPANY** performed the following tasks in order to identify RECs on and in the immediate vicinity of the subject site:

- Conducted a visual survey of the property to evaluate on-site hazardous materials use, storage, and disposal activities.

- Performed a visual reconnaissance of the immediately adjacent sites.

- Attempted to interview the client representative regarding specialized knowledge, purchase price, and commonly known information via a User Provided Information Questionnaire. However, a completed questionnaire was not returned to **KC ENGINEERING COMPANY** prior to the completion of this report. The property currently consists of vacant land, and therefore operators and occupants of the property were not interviewed during the site reconnaissance.

- Reviewed readily available literature and historical documentation for the property to attempt to determine historical site usage from the time of the property's first developed use. Historical documents prior to 1940 were reviewed when available. Documents reviewed include historical U.S.G.S. topographic maps, historical aerial photographs, Sanborn fire insurance maps, building department records, and historical city directories. A title report was not provided to **KC ENGINEERING COMPANY** for review.

- Reviewed 131 reasonably ascertainable regulatory agency databases concerning chemical use, storage, and disposal for the subject property and surrounding sites.

- Searched for environmental cleanup liens and activity and use limitations (AULs).

- Prepared this report presenting our findings, conclusions and recommendations.

SITE DESCRIPTION

The approximate 5.43-acre property is located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in Vacaville, Solano County, California. The property is identified as APN 0133-210-280, and currently consists of vacant land. The predominant land uses in the vicinity of the property are commercial and vacant land (see Plates I, II, and III: Vicinity Map, Site Sketch, and Aerial Photograph, respectively).

The elevation of the property is approximately 108 feet above sea level. The topography in the immediate vicinity of the property is relatively flat, with an overall downward gradient towards the southeast (U.S.G.S. Topographic Map, Allendale Quadrangle, 1978).

Hydrology

No wells were observed on the property during the recent site reconnaissance. Average depth to groundwater was reported at 54 feet below the ground surface (bgs) on July 11, 1995 in a well located approximately 0.23-mile northwest of the property. Groundwater flow direction was reported to the southeast in this well (EDR Inquiry Number 5537022.2s). Fluctuations in the groundwater table can occur with variations in seasonal rainfall, development of the site and vicinity, and irrigation.

The property is not identified within the bounds of a 100- or 500-year flood zone. The property is not identified as a wetland area on the National Wetland Inventory or the State Wetlands database (EDR Inquiry Number 5537022.2s).

SITE RECONNAISSANCE

A field reconnaissance of the site was conducted by Mrs. Amy Lee on January 18, 2019. Mrs. Lee is a Registered Environmental Property Assessor with over twenty-four (24) years' experience conducting Phase I ESAs. The property was visually and/or physically observed by walking throughout the property. Photographs of the subject property are included in Appendix A. The following observations were made:

The approximate 5.43-acre property is situated at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue. Access to the property is made from Vaca Valley Parkway and East Monte Vista Avenue, both of which are paved. The predominant land uses in the vicinity of the property are commercial and vacant land.

The property currently consists of vacant land that has been previously graded. No buildings, foundations, or improved roads were observed on the property. Concrete-paved sidewalks are located on the north and east ends of the property. Regulated quantities of hazardous materials including 55-gallon drums of chemicals, USTs, and ASTs were not observed to be used, stored, or disposed of on the property. Waste management and solid waste disposal activities were not observed on the property. A discarded concrete pipe was observed on the central portion of the property.

The property currently consists of vacant land, and therefore electric, gas, drinking water, sewer, and refuse collection services are not currently provided to the property. Underground utilities, a fire hydrant, utility vaults, and an underground gas pipeline marker were observed along the eastern property boundary, along East Monte Vista Avenue.

The presence of an obvious wastewater discharge was not observed on the property. No elevators, sumps, floor drains, storm drains, wells, transformers, basements, hoists, or hydraulic lifts were observed on the property. Neither stained soils, stained pavement, discolored water, nor stressed vegetation were noticeable on the subject property. Strong, pungent, or noxious odors were not noticeable during the site reconnaissance. Standing surface waters including pits, ponds, and lagoons were not observed on the property. The ground surface of the property was saturated from recent rains during the site reconnaissance. A drainage channel is located along the north end of the property. Storm water flows into this drainage channel and onto adjacent parcels.

No current or past uses likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products were identified during the site reconnaissance. No obvious RECs were observed for the property during the site reconnaissance.

SURROUNDING PROPERTIES

The following current uses of adjoining properties were visually and/or physically observed during the recent site reconnaissance:

- Adjacent to the north: Vaca Valley Parkway, followed by vacant land and Granite Expo located at 916 Cotting Lane.
- Adjacent to the south: Vacant land.
- Adjacent to the west: Solano Irrigation District located at 810 Vaca Valley Parkway.
- Adjacent to the east: East Monte Vista Avenue, followed by vacant land. Burger King, Chevron, and Vaca Valley Travel Center are located just northeast of the property at 151 Crocker Drive.

INTERVIEWS AND USER PROVIDED INFORMATION

All interviews were conducted by Amy E. Lee, a Registered Environmental Property Assessor with over twenty-four (24) years' experience conducting Phase I ESAs. **KC ENGINEERING COMPANY** attempted to conduct an interview with the client representative via a User Provided Information Questionnaire. However, a completed copy of the questionnaire was not returned to **KC ENGINEERING COMPANY** prior to the completion of this report. A copy of the questionnaire is included in Appendix B. A title report was not provided to **KC ENGINEERING COMPANY** for review.

The property currently consists of vacant land, and therefore operators and occupants of the property were not interviewed during the recent site reconnaissance.

Local Environmental Health Department

A file review was conducted at the Solano County Department of Environmental Management on January 17, 2019 to determine if any permits for installation and/or removal of USTs exist for the subject property. No records are on file for the subject property.

RECORDS REVIEW

In order to obtain information regarding current and past RECs at the site, reasonably ascertainable information from several sources was researched. The results of this research are outlined below.

Aerial Photographs

In an attempt to identify the likelihood of past property uses having led to RECs in connection with the property or surrounding area, select aerial photographs of the subject property and surrounding areas were reviewed. Photographs taken in 1937, 1952, 1968, 1974, 1984, 1993, 2006, 2009, 2012, and 2016 were available for review.

The property consisted of undeveloped land from 1937 to 1974. A stream channel was located on the southwest corner of the property from 1937 to 1974. The property consisted of vacant graded land in 1984. A drainage channel was located on the north end of the property in 1984, and the previously observed stream channel was no longer located on the southwest corner of the property. The property consisted of vacant land from 1993 to 2016, with paved sidewalks along

the north and east ends, and a drainage channel located along the north end of the property. No improved roads, buildings, row crops, or orchards were visible on the property.

Undeveloped land adjoined the property to the north from 1937 to 1968. Vaca Valley Parkway adjoined the property to the north from 1974 to 2016, followed by: vacant land from 1974 to 1984; and a commercial building and vacant land from 1993 to 2016. Undeveloped land adjoined the property to the south from 1937 to 2016.

Undeveloped land adjoined the property to the west from 1937 to 1993. A commercial building adjoined the property to the west from 2006 to 2016. Undeveloped land adjoined the property to the east from 1937 to 1974. East Monte Vista Avenue adjoined the property to the east from 1984 to 2016, followed by vacant land. A gasoline service station was located to the northeast of the property in 2016, at the northeast corner of Vaca Valley Parkway and East Monte Vista Avenue/Crocker Drive.

The gasoline service station located to the northeast of the property in 2016 was not identified as a hazardous materials spill or release site on any of the 131 databases reviewed for this assessment. No obvious RECs for the property were identified from the historical aerial photographs reviewed.

Historical Topographic Maps

In an attempt to assess past property uses which may have had an environmental impact on the property or surrounding area, select historical topographic maps depicting the subject property and surrounding areas were reviewed. Maps dated 1908, 1917, 1953, 1968, 1973, and 1978 were available for review.

The property consisted of vacant land from 1908 to 1978. No buildings, roads, wells, or orchards were shown on the property. An intermittent stream channel was shown on the southwest corner of the property from 1953 to 1978.

Undeveloped land adjoined the property to the north from 1908 to 1968. Vaca Valley Parkway adjoined the property to the north from 1973 to 1978, followed by vacant land. Undeveloped lands adjoined the property to the south, west, and east from 1908 to 1978.

No obvious RECs for the property were identified from the historical topographic maps reviewed.

Sanborn Fire Insurance Maps

Sanborn fire insurance maps for Vacaville were reviewed. Coverage of the property was not available (EDR Inquiry 5537022.3).

City Directories

Business directories including city, cross reference, and telephone directories were reviewed, if available, at approximate five-year intervals for the years spanning from 1975 through 2014. During the course of this study, **KC ENGINEERING COMPANY** utilized Environmental Data Resources, Inc. (EDR) as an information source for historical city directories. Vaca Valley Parkway and East Monte Vista Avenue were listed from 1975 through 2014. The property has historically consisted of vacant land, and currently consists of vacant land. No listings were found for the subject property. No obvious RECs for the property were identified from the historical city directories reviewed.

Building Department Records

During the course of this study, **KC ENGINEERING COMPANY** utilized EDR as an information source for local building department records. The property has historically consisted of vacant land, and currently consists of vacant land. No permits were found for the subject property. No obvious RECs for the property were identified from the building department records reviewed.

Environmental Liens and Activity and Use Limitations

During the course of this assessment, **KC ENGINEERING COMPANY** utilized EDR as an information source for environmental cleanup liens and AULs. A search was made for the existence of environmental cleanup liens and AULs against the subject property that are filed or recorded under federal, tribal, state, or local law. No environmental liens or AULs were identified for the property (EDR Inquiry Number 5537022.7). The property owner was identified as Sidhu 151, LLC. Title was received from Buzz Oates, LLC; OBF, LLC; Philip D. Oates; and OK&B, LLC in 2018.

REGULATORY AGENCY DATABASE REVIEW

To ascertain reported areas of possible environmental impairment on or in the vicinity of the subject property, one hundred and thirty-one (131) federal, state, local, tribal, and proprietary records databases were reviewed. During the course of this study, **KC ENGINEERING COMPANY** utilized EDR as an information source for environmental records. Records were also reviewed on the California Regional Water Quality Control Board's GeoTracker website. A complete copy of the EDR Radius Map with GeoCheck Report is included in Appendix C.

The subject property was not identified as a hazardous materials use, storage, disposal, or release site on any of the 131 databases reviewed. Institutional controls and engineering controls were not identified for the subject property. Oil and gas wells were not identified on the subject property.

Two (2) adjoining (nearby) facilities were identified:

1. The Reporter, located just north of the property at 916 Cotting Lane, is identified on the Resource, Conservation, and Recovery Act (RCRA) Small Quantity Generator (SQG) database, and the Facility Index System (FINDS) database. This site is not identified as having had a reported spill or release of hazardous materials, and it is therefore not considered a REC for the subject property.

2. Vaca Valley Travel Center, located just northeast of the property at 151 Crocker Drive, is identified on the CERS HAZ WASTE database, the CERS TANKS database, and the Underground Storage Tank (UST) database. Four USTs are located at this facility. This site is not identified as having had a reported spill or release of hazardous materials, and it is therefore not considered a REC for the subject property.

Eight (8) additional hazardous materials use, storage, disposal, or release sites were identified within the ASTM-specified approximate minimum search distance of the subject property. Four (4) of the eight identified sites have not had a reported spill or release of hazardous materials, and they are therefore not considered a REC for the property. The four identified hazardous materials release sites have all received regulatory agency closure, and they are therefore not considered a REC for the property. No open hazardous materials release sites were identified within the ASTM-specified approximate minimum search distance of the subject property.

No obvious RECs for the property were noted from the 131 government databases reviewed. No obvious potential off-site sources of contamination were identified within the ASTM-specified approximate minimum search distance of the subject property.

FINDINGS AND OPINION

Historical research conducted for this assessment indicates that the property consisted of undeveloped land from 1908 to 1978. A stream channel was located on the southwest corner of the property from at least 1937 to 1978. By 1984 the property consisted of vacant graded land, and a drainage channel was located along the north end of the property. The property remained vacant land with paved sidewalks along the north and east ends, and a drainage channel along the north end from 1993 to 2019. No buildings, improved roads, orchards, or row crops have been located on the property in the past. No significant data gaps or data failures were encountered during the course of this assessment.

The property currently consists of vacant land with paved sidewalks along the north and east ends, and a drainage channel along the north end. Regulated quantities of hazardous materials including USTs, ASTs, and 55-gallon drums of chemicals were not observed to be used, stored, or disposed of on the property. No current or past uses likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products were identified during the site reconnaissance. No obvious RECs were observed for the property during the recent site reconnaissance.

The subject property was not identified as a hazardous materials use, storage, disposal, or release site on any of the 131 databases reviewed for this assessment. Institutional controls and engineering controls were not identified for the subject property. Oil and gas wells were not identified on the subject property. The search of regulatory lists for hazardous materials sites in the vicinity of the property did not identify any obvious potential off-site sources of contamination within the ASTM-specified approximate minimum search distance of the subject property. No obvious RECs for the property were noted from the 131 databases reviewed.

Based on the research conducted for this assessment, it is **KC ENGINEERING COMPANY's** opinion that no obvious RECs, historical RECs, or controlled RECs were identified during the course of this assessment. No obvious conditions indicative of releases or threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products on, at, in, or to the subject property were identified during the course of this assessment. No further environmental investigation of the subject property appears warranted at this time. This opinion is based on the information provided to **KC ENGINEERING COMPANY** during the course of this assessment. Any data that is missing or was withheld from **KC ENGINEERING COMPANY** could alter our opinion.

CONCLUSIONS

KC ENGINEERING COMPANY has performed a Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-13 of the property identified as APNS 0133-210-280, located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in Vacaville, Solano County, California. The property currently consists of vacant land. Any exceptions to, or deletions from, this practice are described under the Scope of Services on Page 5 of this report.

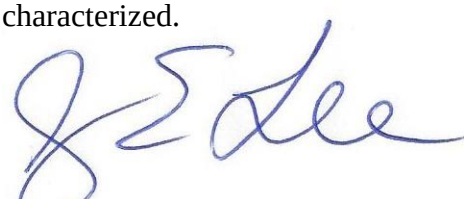
This assessment has revealed no obvious evidence of RECs, historical RECs, or controlled RECs in connection with the subject property. No further environmental investigation of the subject property appears warranted at this time.

CERTIFICATION

This Phase I ESA Report has been prepared by **KC ENGINEERING COMPANY** at the request of J&P Hospitality, and has been reviewed and approved by the undersigned. The research, interviews, and field work conducted for this assessment were completed by Amy E. Lee, a Registered Environmental Property Assessor with over twenty-four (24) years' experience conducting Phase I ESAs.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR §312.10(b). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

The scope of effort upon which this report is based is intended to provide a reasonable assessment of environmental risk for the client. This effort was not absolutely exhaustive and the quality of our assessment is necessarily dependent on the quality of the information supplied to **KC ENGINEERING COMPANY** by all sources cited. Inspection and data collection were carried out by **KC ENGINEERING COMPANY** staff according to accepted standards. However, inspection was mainly surficial and the identification of possible environmental risks or contamination was limited accordingly. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this assessment is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property. Therefore, this report does not carry with it any express or implied warranty that environmental risks associated with the subject site have been totally excluded or precisely characterized.



Amy E. Lee, R.E.P.A. #157732
Environmental Assessor

LIMITATIONS

At the present date, the findings of this report are valid for the property investigated. With the passage of time, significant changes in the conditions of a property can occur due to natural processes or works of man on this or adjacent properties. In addition, legislation or the broadening of knowledge may result in changes in applicable standards. Changes outside of our control may render this report invalid, wholly or partially. Therefore, this report should not be considered valid after a period of 180 days without our review, nor should it be used, or is it applicable, for any properties other than those investigated.

This report has been prepared for the exclusive use of J&P Hospitality, as it pertains to the property described herein. The conclusions in this report are opinions, based on readily available information obtained to date, within the scope of work authorized by J&P Hospitality. Use of, or reliance on the information and opinions contained in this report by other parties without first consulting this office is at those parties' own risk.

The results contained in this report are based upon the information acquired during this assessment. **KC ENGINEERING COMPANY** shall not be responsible for conditions or consequences arising from facts and information that were withheld or concealed, or not fully disclosed at the time that this evaluation was performed. **KC ENGINEERING COMPANY** is not responsible for errors or omissions in agency files or databases. It is possible that variations exist beyond or between points observed during the course of this assessment. Also, changes in observed conditions could occur due to contamination migration, variations in rainfall, temperature, and/or other factors not apparent at the time of the field evaluation. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property.

KC ENGINEERING COMPANY has strived to prepare this report in accordance with generally accepted geologic/environmental practices in this community, as well as good commercial and customary practice for ESAs. No warranty or guarantee is expressed or implied.

REFERENCES

Environmental Data Resources, Inc., The EDR Radius Map Report with GeoCheck, Inquiry Number: 5537022.2s, January 17, 2019.

Environmental Data Resources, Inc., Certified Sanborn Map Report, Inquiry Number: 5537022.3, January 17, 2019.

Environmental Data Resources, Inc., The EDR Historical Topographic Map Report, Inquiry Number: 5537022.4, January 17, 2019.

Environmental Data Resources, Inc., The EDR-City Directory Image Report, Inquiry Number: 5537022.5, January 17, 2019.

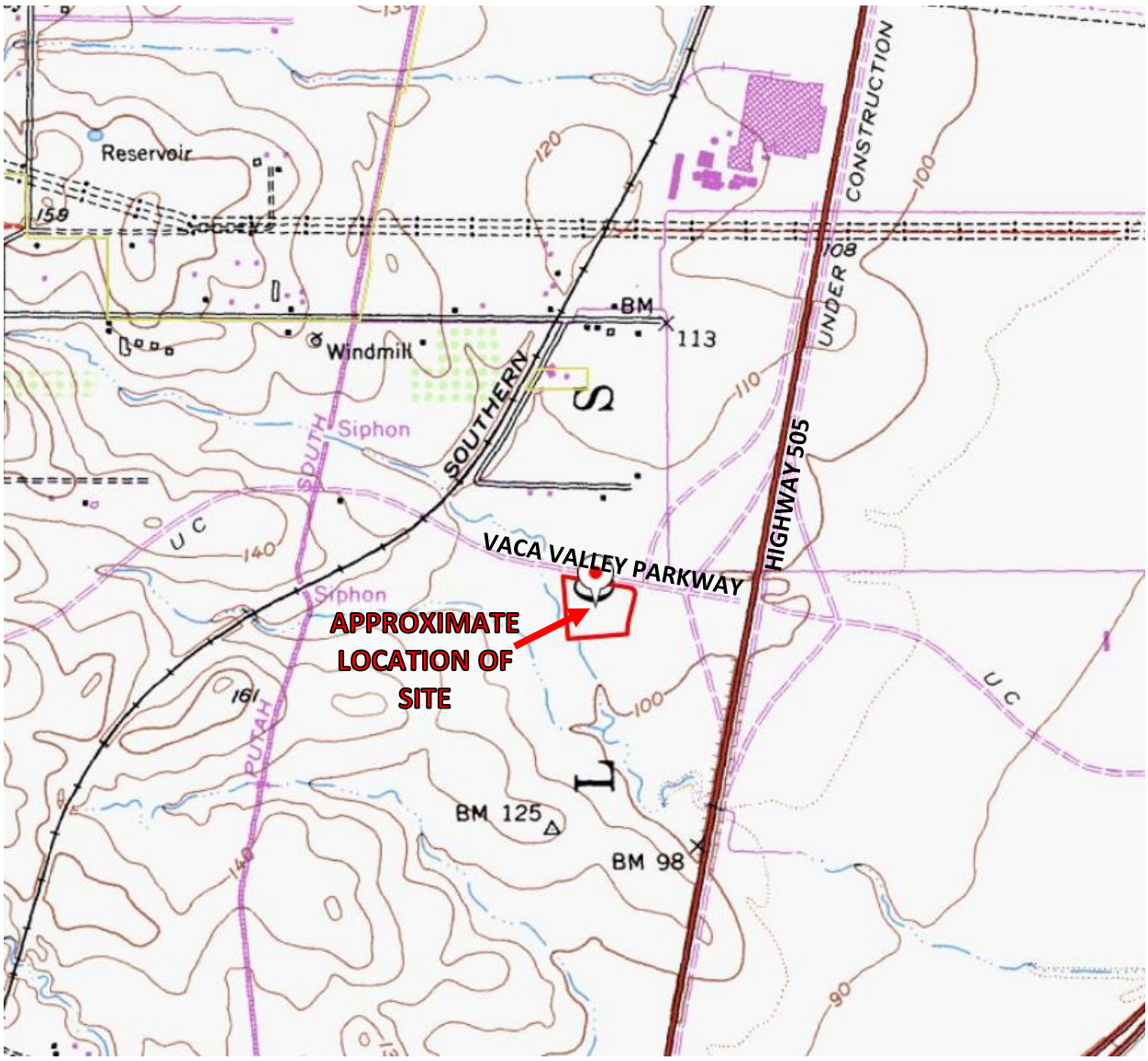
Environmental Data Resources, Inc., The EDR Environmental Lien and AUL Search, Inquiry Number: 5537022.7, January 18, 2019.

Environmental Data Resources, Inc., EDR Building Permit Report, Inquiry Number: 5537022.8, January 17, 2019.

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package, Inquiry Number: 5537022.11, January 17, 2019.

Solano County Department of Environmental Management, Personal Communication, January 17, 2019.

Regional Water Quality Control Board, GeoTracker Website, January 29, 2019.



SOURCE: U.S.G.S. TOPOGRAPHIC MAP, 7.5-MINUTE ALLENDALE QUADRANGLE, 1978

PLATE I

N

APPROXIMATE SCALE: 1" = 1,370'

VICINITY MAP
APN 0133-210-280 VACA VALLEY PARKWAY AND EAST MONTE VISTA AVENUE VACAVILLE, SOLANO COUNTY, CALIFORNIA
KC ENGINEERING COMPANY
FEBRUARY 1, 2019 | VV4648

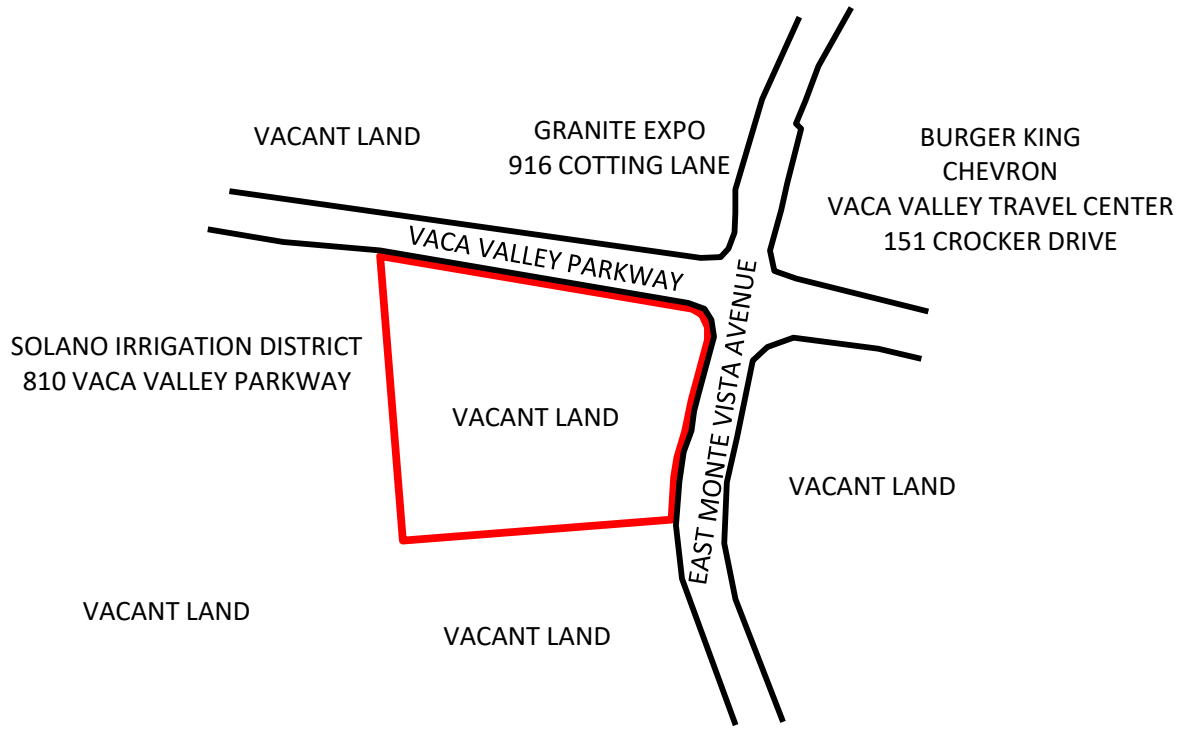


PLATE II

N

NOT TO SCALE

SITE SKETCH

APN 0133-210-280
VACA VALLEY PARKWAY AND
EAST MONTE VISTA AVENUE
VACAVILLE, SOLANO COUNTY, CALIFORNIA

KC ENGINEERING COMPANY

FEBRUARY 1, 2019	VV4648



SOURCE: 2019 Google Earth

PLATE III

N

APPROXIMATE SCALE: 1" = 350'

AERIAL PHOTOGRAPH

APN 0133-210-280
VACA VALLEY PARKWAY AND
EAST MONTE VISTA AVENUE
VACAVILLE, SOLANO COUNTY, CALIFORNIA

KC ENGINEERING COMPANY

FEBRUARY 1, 2019	VV4648

Appendix A

Site Photographs



Photo 1. Southeast-facing view from the northwest corner of the property.



Photo 2. View facing southwest from the northeast corner of the property.



Photo 3. Northwest-facing view from the southeast corner of the property.



Photo 4. View facing northeast from the southwest corner of the property.



Photo 5. View of the drainage channel located along the north end of the property.



Photo 6. View of a concrete pipe located on the central portion of the property.



Photo 7. View facing northwest from the central south end of the property.



Photo 8. Northeast-facing view from the central south end of the property.

Appendix B

User Provided Information Questionnaire

USER-PROVIDED INFORMATION QUESTIONNAIRE

DATE: January 16, 2019
CLIENT: J&P Hospitality
PROPERTY: APN 0133-210-280
Southwest Corner of Vaca Valley Parkway and E. Monte Vista Avenue
Vacaville, Solano County, California

THE FOLLOWING INFORMATION **MUST** BE PROVIDED TO KC ENGINEERING COMPANY IN ORDER TO MEET ASTM STANDARD E1527-13.

PLEASE COMPLETE THIS FORM AND E-MAIL OR FAX IT TO **KC ENGINEERING COMPANY** AT **530-223-2624** AT YOUR EARLIEST CONVENIENCE. THANK YOU.

1. **TITLE REPORT** – PLEASE PROVIDE KC ENGINEERING COMPANY WITH A COPY.

2. Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

   _____YES _____NO

3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

   _____YES _____NO

4. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

   _____YES _____NO

5. Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

   _____YES _____NO

6. Do you have any specialized knowledge or experience related to the property or nearby properties?

   _____YES _____NO

7. Are you aware of any commonly known or reasonably ascertainable information about the property or nearby properties that would help identify conditions indicative of releases or threatened releases?

   _____YES _____NO

8. Do you know the past uses of the property?

   _____YES _____NO
   (If yes, please list)

9. Do you know of specific chemicals that are present or once were present at the property?

   _____YES _____NO
   (If yes, please list)

10. Do you know of spills or other chemical releases that have taken place at the property?

    _____YES _____NO
    (If yes, please list)

11. Do you know of any environmental cleanups that have taken place at the property?

    _____YES _____NO
    (If yes, please list)

12. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

_____YES _____NO

If no, is the lower purchase price due to contamination that is known or believed to be present at the property?

_____YES _____NO

13. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

_____YES _____NO

14. Property owner NAME _____
PHONE NUMBER_____

15. Property manager NAME _____
PHONE NUMBER_____

16. Occupant NAME _____
PHONE NUMBER_____

17. Reason for performing Phase I Environmental Site Assessment?

_____To qualify for land owner liability protections to CERCLA liability
_____OTHER: _____

_____

18. Are you aware of any of the following documents that may exist for the property?

a. Environmental Site Assessment Reports _____YES _____NO
b. Environmental Compliance Audit Reports _____YES _____NO
c. Environmental Permits (e.g. solid waste disposal permits, hazardous waste disposal permits, wastewater permits, npdes permits, underground injection permits)
_____YES _____NO
d. Registrations for underground and aboveground storage tanks
_____YES _____NO

e. Registrations for underground injection systems
_____YES _____NO

f. Material safety data sheets _____YES_____NO

g. Community right-to-know plan _____YES_____NO

h. Safety plans, preparedness and prevention plans, spill prevention, countermeasure, and control plans _____YES_____NO

i. Reports regarding hydro geologic conditions on the property or surrounding area
_____YES _____NO

j. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
_____YES _____NO

k. Hazardous waste generator notices or reports
_____YES _____NO

l. Geotechnical studies _____YES _____NO

m. Risk assessments _____YES _____NO

n. Recorded activity and use limitations _____YES _____NO

If yes on (a-n) above, will copies be provided to KC ENGINEERING COMPANY for review?

_____YES _____NO

COMPLETED BY:

SIGNATURE _____

PRINT NAME _____

DATE _____

Appendix C

EDR Radius Map Report

J&P Hospitality
Vaca Valley Pkwy/E Monte Vista Ave
Vacaville, CA 95688

Inquiry Number: 5537022.2s
January 17, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

VACA VALLEY PKWY/E MONTE VISTA AVE
VACAVILLE, CA 95688

COORDINATES

Latitude (North):	38.3939500 - 38° 23' 38.22''
Longitude (West):	121.9543700 - 121° 57' 15.73''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	591313.7
UTM Y (Meters):	4249837.0
Elevation:	108 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5629044 ALLENDALE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
VACA VALLEY PKWY/E MONTE VISTA AVE
VACAVILLE, CA 95688

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	REPORTER THE	916 COTTING LN	RCRA-SQG, FINDS	Higher	467, 0.088, NNE
A2	VACA VALLEY TRAVEL C	151 CROCKER DR	CERS HAZ WASTE, CERS TANKS, CERS	Lower	556, 0.105, NE
A3	VACA VALLEY TRAVEL C	151 CROCKER DR	UST	Lower	557, 0.105, NE
B4	GOLDEN STATE FC LLC	300 CROCKER DR	RCRA-SQG	Higher	742, 0.141, NE
B5	GOLDEN STATE FC LLC	300 CROCKER DR	CERS HAZ WASTE, CERS	Higher	742, 0.141, NE
C6	NORCAL PETROLEUM/INT	917 COTTING LN	SWEEPS UST, CA FID UST	Higher	920, 0.174, North
C7	INTERSTATE OIL COMPA	917 COTTING LANE	LUST, EMI, CERS	Higher	920, 0.174, North
C8	VACAVILLE CARDLOCK	917 COTTING LN	AST	Higher	920, 0.174, North
C9	VACAVILLE CARDLOCK	917 COTTING LN	CERS HAZ WASTE, CERS TANKS, CERS	Higher	920, 0.174, North
C10	VACAVILLE CARDLOCK	917 COTTING LN	UST	Higher	920, 0.174, North
11	FULTON-PACIFIC	1060 AVIATOR DR	CERS HAZ WASTE, CERS	Higher	1121, 0.212, SW
12	BIG-O DISTRIBUTION C	877 COTTING CT	LUST, HIST UST, CHMIRS, HIST CORTESE, CERS	Higher	1397, 0.265, North
13	SPRIG CIRCUITS, INC.	765-A EUBANKS DRIVE	RCRA-LQG, ENVIROSTOR	Higher	1817, 0.344, NNW
14	ALL WEATHER INSULATE	929 ALDRIDGE RD	LUST, UST, CERS HAZ WASTE, EMI, WDS, CIWQS, CERS	Higher	2249, 0.426, North
15	PACIFIC SPECTRUM GLA	909 ALDRIDGE RD	LUST, SWEEPS UST, HIST CORTESE	Higher	2582, 0.489, North
16	COURT GALVANIZING, I	4937 ALLISON PARKWAY	RCRA-LQG, ENVIROSTOR, NPDES, CIWQS	Higher	3539, 0.670, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs

Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST	Hazardous Substance Storage Container Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File

EXECUTIVE SUMMARY

ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
CIWQS	California Integrated Water Quality System
CERS	CERS
WIP	Well Investigation Program Case List
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
WDR	Waste Discharge Requirements Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REPORTER THE EPA ID:: CAR000004291	***916 COTTING LN***	***NNE 0 - 1/8 (0.088 mi.)***	***1***	***8***
GOLDEN STATE FC LLC EPA ID:: CAR000276162	300 CROCKER DR	NE 1/8 - 1/4 (0.141 mi.)	B4	36

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/29/2018 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRIG CIRCUITS, INC.	***765-A EUBANKS DRIVE***	***NNW 1/4 - 1/2 (0.344 mi.)***	***13***	***88***

Facility Id: 71002695
Status: Inactive - Needs Evaluation

COURT GALVANIZING, I	***4937 ALLISON PARKWAY***	***WSW 1/2 - 1 (0.670 mi.)***	***16***	***105***

Facility Id: 71003336
Status: Inactive - Needs Evaluation

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INTERSTATE OIL COMPA	***917 COTTING LANE***	***N 1/8 - 1/4 (0.174 mi.)***	***C7***	***45***

Database: SOLANO CO. LUST, Date of Government Version: 11/29/2018
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 50085
Global Id: T10000000211
Facility Status: I

BIG-O DISTRIBUTION C	***877 COTTING CT***	***N 1/4 - 1/2 (0.265 mi.)***	***12***	***84***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: SOLANO CO. LUST, Date of Government Version: 11/29/2018
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Status: Case Closed
Facility Id: 50096
Global Id: T0609500418
Facility Status: I

ALL WEATHER INSULATE	***929 ALDRIDGE RD***	***N 1/4 - 1/2 (0.426 mi.)***	***14***	***96***

Database: SOLANO CO. LUST, Date of Government Version: 11/29/2018
Facility Id: 50022
Facility Status: I

PACIFIC SPECTRUM GLA	***909 ALDRIDGE RD***	***N 1/4 - 1/2 (0.489 mi.)***	***15***	***103***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0609500407

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within

approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VACAVILLE CARDLOCK	917 COTTING LN	N 1/8 - 1/4 (0.174 mi.)	C10	76
Database: SOLANO CO. UST, Date of Government Version: 11/29/2018 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 50085 Facility Status: A Facility Id: 48-000-050085				

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACA VALLEY TRAVEL C	151 CROCKER DR	NE 0 - 1/8 (0.105 mi.)	A3	35
Database: SOLANO CO. UST, Date of Government Version: 11/29/2018 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 501901 Facility Status: A Facility Id: 48-000-501901				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VACAVILLE CARDLOCK	917 COTTING LN	N 1/8 - 1/4 (0.174 mi.)	C8	50
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/22/2018 has revealed that there are 4 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN STATE FC LLC	***300 CROCKER DR***	***NE 1/8 - 1/4 (0.141 mi.)***	***B5***	***40***
VACAVILLE CARDLOCK	***917 COTTING LN***	***N 1/8 - 1/4 (0.174 mi.)***	***C9***	***51***
FULTON-PACIFIC	***1060 AVIATOR DR***	***SW 1/8 - 1/4 (0.212 mi.)***	***11***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACA VALLEY TRAVEL C	***151 CROCKER DR***	***NE 0 - 1/8 (0.105 mi.)***	***A2***	***9***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORCAL PETROLEUM/INT	***917 COTTING LN***	***N 1/8 - 1/4 (0.174 mi.)***	***C6***	***43***
Status: A Tank Status: A Comp Number: 50085				

CERS TANKS: 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.

A review of the CERS TANKS list, as provided by EDR, and dated 10/22/2018 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VACAVILLE CARDLOCK	***917 COTTING LN***	***N 1/8 - 1/4 (0.174 mi.)***	***C9***	***51***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VACA VALLEY TRAVEL C	***151 CROCKER DR***	***NE 0 - 1/8 (0.105 mi.)***	***A2***	***9***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORCAL PETROLEUM/INT	***917 COTTING LN***	***N 1/8 - 1/4 (0.174 mi.)***	***C6***	***43***
Facility Id: 48002260 Status: A				

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there

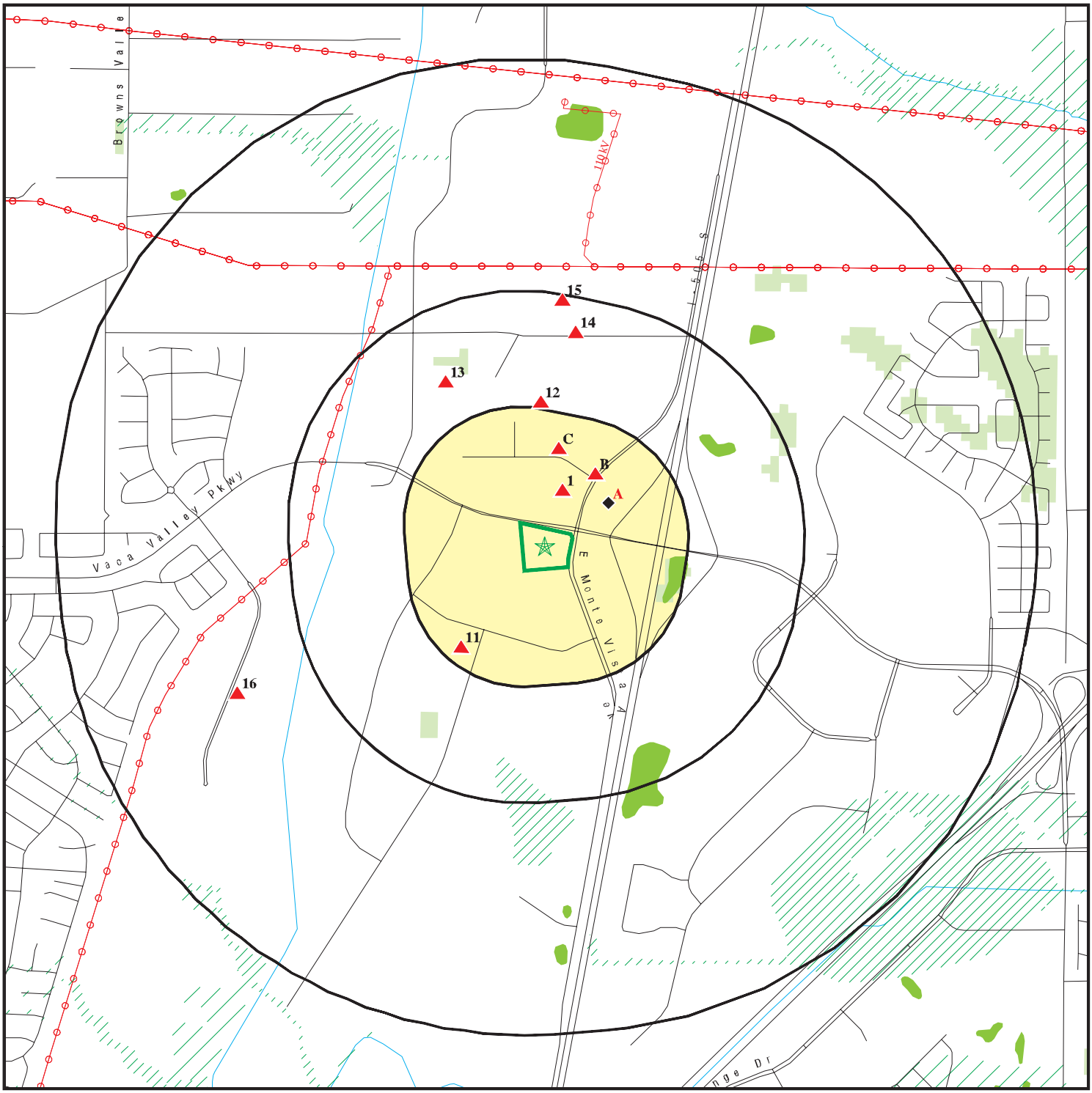
are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG-O DISTRIBUTION C Reg Id: 480178	***877 COTTING CT***	***N 1/4 - 1/2 (0.265 mi.)***	***12***	***84***
PACIFIC SPECTRUM GLA Reg Id: 480167	***909 ALDRIDGE RD***	***N 1/4 - 1/2 (0.489 mi.)***	***15***	***103***

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5537022.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: J&P Hospitality	CLIENT: K.C. Engineering Company
ADDRESS: Vaca Valley Pkwy/E Monte Vista Ave Vacaville CA 95688	CONTACT: Amy Lee
LAT/LONG: 38.39395 / 121.95437	INQUIRY #: 5537022.2s DATE: January 17, 2019 11:58 am

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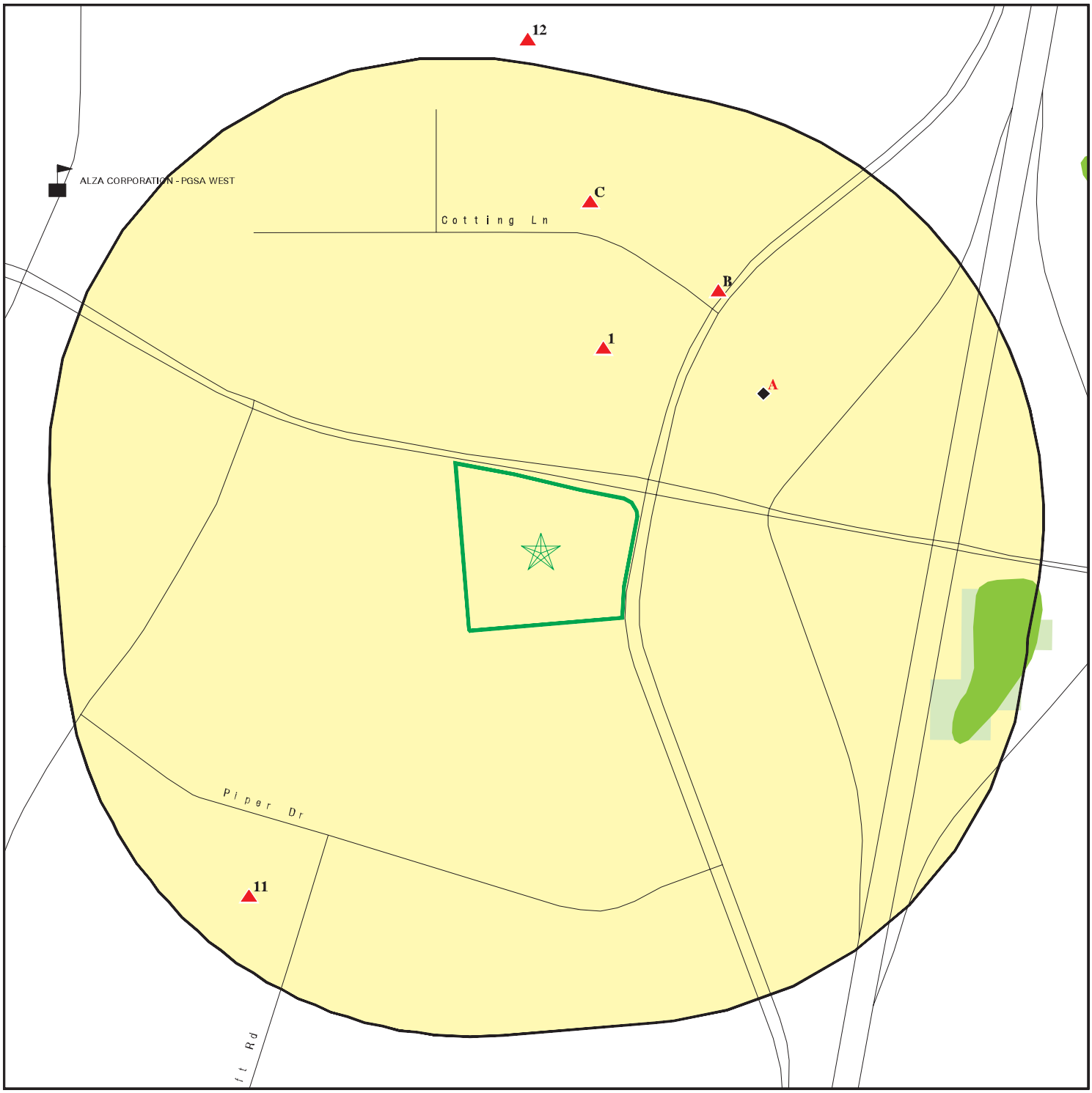
DETAIL MAP - 5537022.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: J&P Hospitality	CLIENT: K.C. Engineering Company
ADDRESS: Vaca Valley Pkwy/E Monte Vista Ave Vacaville CA 95688	CONTACT: Amy Lee
LAT/LONG: 38.39395 / 121.95437	INQUIRY #: 5537022.2s DATE: January 17, 2019 12:02 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	1	3	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	1	NR	NR	NR	2
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		1	3	NR	NR	NR	4
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	1	NR	NR	NR	2
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	4	10	6	1	0	21

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NNE
< 1/8
0.088 mi.
467 ft.

REPORTER THE
916 COTTING LN
VACAVILLE, CA 95688

RCRA-SQG **1001023078**
FINDS **CAR000004291**

Relative:
Higher

Actual:
109 ft.

RCRA-SQG:

Date form received by agency:	07/12/1995
Facility name:	REPORTER THE
Facility address:	916 COTTING LN VACAVILLE, CA 95688
EPA ID:	CAR000004291
Mailing address:	COTTING LN VACAVILLE, CA 95688
Contact:	GARY DAVIDSON
Contact address:	916 COTTING LN VACAVILLE, CA 95688
Contact country:	US
Contact telephone:	707-448-6401
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RICHARD RICO
Owner/operator address:	916 COTTLING LN VACAVILLE, CA 95688
Owner/operator country:	Not reported
Owner/operator telephone:	707-448-6401
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

REPORTER THE (Continued) **1001023078**

Violation Status: No violations found

FINDS:

Registry ID: 110055768708

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A2 NE < 1/8 0.105 mi. 556 ft. **VACA VALLEY TRAVEL CENTER** **CERS HAZ WASTE** **S121776715**
151 CROCKER DR **CERS TANKS** **N/A**
VACAVILLE, CA 95688 **CERS**

Site 1 of 2 in cluster A

Relative: Lower
Actual: 107 ft.

CERS HAZ WASTE:
Site ID: 405239
CERS ID: 10406887
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-26-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-26-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: UST

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description: Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes: Returned to compliance on 04/14/2014.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-21-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-26-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-14-2014
Citation:	HSC 6.95 25510 - California Health and Safety Code, Chapter 6.95, Section(s) 25510
Violation Description:	Failure to update hazardous material inventory within 30 days when one of the following occurs: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 04/20/2015. Inspector observed 55 gal. drum of car wash chemicals on site - add to hazardous inventory on CERS
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-24-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description:	Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description: Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes: Returned to compliance on 04/14/2014.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-24-2018
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-25-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: AMC observation, no violations noted. Small amount of liquid removed from diesel dispenser areas (9), directed to monitor carefully.
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-25-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	405239
Facility Name:	Vaca Valley Travel Center
Env Int Type Code:	HMBP
Program ID:	10406887
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.395350
Longitude:	-121.951840

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	151 Crocker Drive
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765

Affiliation Type Desc:	Legal Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275

Affiliation Type Desc:	Operator
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-5244

Affiliation Type Desc:	Property Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Jaspreet Sidhu
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-7275

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

Affiliation Type Desc: Identification Signer
Entity Name: Jaspreet Sidhu
Entity Title: Owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

Affiliation Type Desc: Parent Corporation
Entity Name: Sidhu and Sons
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

CERS TANKS:
Site ID: 405239
CERS ID: 10406887

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

CERS Description: Underground Storage Tank

Violations:

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-26-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-26-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description: Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-21-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.
Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-26-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-14-2014
Citation:	HSC 6.95 25510 - California Health and Safety Code, Chapter 6.95, Section(s) 25510

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Description:	Failure to update hazardous material inventory within 30 days when one of the following occurs: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 04/20/2015. Inspector observed 55 gal. drum of car wash chemicals on site - add to hazardous inventory on CERS
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-24-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description:	Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description:	Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-24-2018
Citation:	22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
Violation Description:	Failure to maintain and operate the facility to minimize the

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violation Notes: Returned to compliance on 05/14/2018.
Violation Division: Solano County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-25-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: AMC observation, no violations noted. Small amount of liquid removed from diesel dispenser areas (9), directed to monitor carefully.
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-25-2016

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 405239
Facility Name: Vaca Valley Travel Center
Env Int Type Code: HMBP
Program ID: 10406887
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.395350
Longitude: -121.951840

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 151 Crocker Drive
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95688
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Legal Owner
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

Affiliation Type Desc: Operator

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-5244
Affiliation Type Desc:	Property Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Jaspreet Sidhu
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	Identification Signer
Entity Name:	Jaspreet Sidhu
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

Affiliation Type Desc: Parent Corporation
Entity Name: Sidhu and Sons
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Jaspreet Sidhu
Entity Title: Not reported
Affiliation Address: 438 Peacock Way
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 301-7275

CERS TANKS:
Site ID: 405239
CERS ID: 10406887
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 05-31-2013
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/23/2014.
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 405239
Site Name: Vaca Valley Travel Center
Violation Date: 04-26-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

	inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-26-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description:	Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-21-2015

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.
Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-26-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-14-2014
Citation:	HSC 6.95 25510 - California Health and Safety Code, Chapter 6.95, Section(s) 25510
Violation Description:	Failure to update hazardous material inventory within 30 days when one of the following occurs: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 04/20/2015. Inspector observed 55 gal. drum of car wash chemicals on site - add to hazardous inventory on CERS
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-24-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description:	Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description:	Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes:	Returned to compliance on 04/14/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	04-24-2018
Citation:	22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Returned to compliance on 05/14/2018.
Violation Division:	Solano County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	405239
Site Name:	Vaca Valley Travel Center
Violation Date:	05-31-2013
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 04/23/2014.
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-26-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-06-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-25-2016

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	AMC observation, no violations noted. Small amount of liquid removed from diesel dispenser areas (9), directed to monitor carefully.
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-25-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-06-2014
Violations Found:	No
Eval Type:	Routine done by local agency

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 405239
Facility Name: Vaca Valley Travel Center
Env Int Type Code: HMBP
Program ID: 10406887
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.395350
Longitude: -121.951840

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 151 Crocker Drive

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765
Affiliation Type Desc:	Legal Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	Operator
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-5244
Affiliation Type Desc:	Property Owner
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	UST Permit Applicant

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Entity Name:	Jaspreet Sidhu
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	Identification Signer
Entity Name:	Jaspreet Sidhu
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275
Affiliation Type Desc:	Parent Corporation
Entity Name:	Sidhu and Sons
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

VACA VALLEY TRAVEL CENTER (Continued) **S121776715**

Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Jaspreet Sidhu
Entity Title:	Not reported
Affiliation Address:	438 Peacock Way
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 301-7275

A3 **VACA VALLEY TRAVEL CENTER -HAZMAT** **UST** **U004191918**
NE **151 CROCKER DR** **N/A**
< 1/8 **VACAVILLE, CA 95688**
0.105 mi.
557 ft. **Site 2 of 2 in cluster A**

Relative: **Lower**

Actual: **107 ft.**

UST:

Facility ID:	48-000-501901
Permitting Agency:	Solano County Environmental Health
Latitude:	38.39535
Longitude:	-121.95184

SOLANO CO. UST:

Facility Id:	501901
Facility Status:	Active
Decode for Facility Status:	Operating
Facility Phone:	Not reported
Inventory Number:	1
Inventory Type:	Gas Station - Retail (111)
Inventory Description:	Not reported
Permit Expire/Last Service:	LETTER/REPORT REVIEW 05/31/19, 05/31/19
Last Service Date:	9/12/2018
District:	SUP-DIST NO 3031
Inspector:	Ambrose, Chris S
Inventory Number:	2
Inventory Type:	Gas Station - Retail (111)
Inventory Description:	Not reported
Permit Expire/Last Service:	ROUTINE - INITIAL (INVENTORIED) 05/31/19, 05/31/19
Last Service Date:	4/24/2018
District:	SUP-DIST NO 3031
Inspector:	Ambrose, Chris S
Inventory Number:	3
Inventory Type:	Gas Station - Retail (111)
Inventory Description:	Not reported
Permit Expire/Last Service:	ROUTINE - INITIAL (INVENTORIED) 05/31/19, 05/31/19
Last Service Date:	4/24/2018
District:	SUP-DIST NO 3031
Inspector:	Ambrose, Chris S

VACA VALLEY TRAVEL CENTER -HAZMAT (Continued) **U004191918**

Inventory Number: 4
Inventory Type: Gas Station - Retail (111)
Inventory Description: Not reported
Permit Expire/Last Service: ROUTINE - INITIAL (INVENTORIED) 05/31/19, 05/31/19
Last Service Date: 4/24/2018
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

B4 **GOLDEN STATE FC LLC (SMF5)** **RCRA-SQG** **1023966878**
NE **300 CROCKER DR** **CAR000276162**
1/8-1/4 **VACAVILLE, CA 95688**
0.141 mi.
742 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
110 ft.

RCRA-SQG:
Date form received by agency: 09/19/2017
Facility name: GOLDEN STATE FC LLC (SMF5)
Facility address: 300 CROCKER DR
VACAVILLE, CA 95688
EPA ID: CAR000276162
Mailing address: PO BOX 80842
ATTN: NA ENV TEAM
SEATTLE, WA 98108
Contact: ERIC CHAPMAN
Contact address: PO BOX 80842
SEATTLE, WA 98108
Contact country: US
Contact telephone: 206-413-4526
Contact email: ECHAPM@AMAZON.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BUZZ OATES DEVELOPMENT, LP AND BUZZ OATES LLC
Owner/operator address: CAPITOL MALL, STE 900
SACRAMENTO, CA 95814
Owner/operator country: US
Owner/operator telephone: 916-379-3800
Owner/operator email: INFO@BUZZOATES.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/08/2017
Owner/Op end date: Not reported

Owner/operator name: GOLDEN STATE FC LLC
Owner/operator address: PO BOX 80842
SEATTLE, WA 98108
Owner/operator country: US
Owner/operator telephone: 206-413-4526
Owner/operator email: ECHAPM@AMAZON.COM

GOLDEN STATE FC LLC (SMF5) (Continued) **1023966878**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/15/2017
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 281

GOLDEN STATE FC LLC (SMF5) (Continued) **1023966878**

. Waste name: Adhesives

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

GOLDEN STATE FC LLC (SMF5) (Continued) **1023966878**

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U205
. Waste name: SELENIUM SULFIDE

Violation Status: No violations found

B5
NE
1/8-1/4
0.141 mi.
742 ft.

GOLDEN STATE FC LLC - SMF5
300 CROCKER DR
VACAVILLE, CA 95688

Site 2 of 2 in cluster B

CERS HAZ WASTE **S121783009**
CERS **N/A**

Relative:
Higher

Actual:
110 ft.

CERS HAZ WASTE:

Site ID:	427949
CERS ID:	10748062
CERS Description:	Hazardous Waste Generator

Coordinates:

Site ID:	427949
Facility Name:	Golden State FC LLC - SMF5
Env Int Type Code:	HMBP
Program ID:	10748062
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.400290
Longitude:	-121.948790

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Evan O'Brien
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Golden State FC LLC - SMF5
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(415) 810-3955

Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jim Monroe
Entity Title:	Not reported
Affiliation Address:	24208 San Michelle Rd
Affiliation City:	Moreno Valley
Affiliation State:	CA
Affiliation Country:	Not reported

GOLDEN STATE FC LLC - SMF5 (Continued) **S121783009**

Affiliation Zip:	92551
Affiliation Phone:	(909) 358-2658
Affiliation Type Desc:	Identification Signer
Entity Name:	Evan O'Brien
Entity Title:	Environmental Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Golden State FC LLC
Entity Title:	Not reported
Affiliation Address:	P.O. Box 80842
Affiliation City:	Seattle
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98108
Affiliation Phone:	(206) 413-4526
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	300 Crocker Dr
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Golden State FC LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CERS TANKS:

Site ID:	427949
CERS ID:	10748062
CERS Description:	Chemical Storage Facilities

Coordinates:

Site ID:	427949
Facility Name:	Golden State FC LLC - SMF5
Env Int Type Code:	HMBP
Program ID:	10748062
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.400290

GOLDEN STATE FC LLC - SMF5 (Continued) **S121783009**

Longitude: -121.948790

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Evan O'Brien
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Golden State FC LLC - SMF5
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (415) 810-3955

Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Environmental Contact
Entity Name: Jim Monroe
Entity Title: Not reported
Affiliation Address: 24208 San Michelle Rd
Affiliation City: Moreno Valley
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92551
Affiliation Phone: (909) 358-2658

Affiliation Type Desc: Identification Signer
Entity Name: Evan O'Brien
Entity Title: Environmental Consultant
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Golden State FC LLC
Entity Title: Not reported
Affiliation Address: P.O. Box 80842

GOLDEN STATE FC LLC - SMF5 (Continued) **S121783009**

Affiliation City:	Seattle
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98108
Affiliation Phone:	(206) 413-4526
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	300 Crocker Dr
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Golden State FC LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C6 **NORCAL PETROLEUM/INTERSTATE OIL/COAST OIL CORP** **SWEEPS UST S101595182**
North **917 COTTING LN** **CA FID UST N/A**
1/8-1/4 **VACAVILLE, CA 95688**
0.174 mi.
920 ft. **Site 1 of 5 in cluster C**

Relative: **Higher**

Actual: **112 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	50085
Number:	1
Board Of Equalization:	44-031259
Referral Date:	08-30-93
Action Date:	03-02-94
Created Date:	10-09-91
Owner Tank Id:	J363479-P
SWRCB Tank Id:	48-000-050085-000001
Tank Status:	A
Capacity:	6000
Active Date:	08-30-93
Tank Use:	M.V. FUEL
STG:	P
Content:	PLUS UNLEADED
Number Of Tanks:	4
Status:	Active
Comp Number:	50085
Number:	1
Board Of Equalization:	44-031259
Referral Date:	08-30-93
Action Date:	03-02-94
Created Date:	10-09-91

NORCAL PETROLEUM/INTERSTATE OIL/COAST OIL CORP (Continued) **S101595182**

Owner Tank Id: J363479-P
SWRCB Tank Id: 48-000-050085-000002
Tank Status: A
Capacity: 6000
Active Date: 08-30-93
Tank Use: M.V. FUEL
STG: P
Content: SUPER UNLEADE
Number Of Tanks: Not reported

Status: Active
Comp Number: 50085
Number: 1
Board Of Equalization: 44-031259
Referral Date: 08-30-93
Action Date: 03-02-94
Created Date: 10-09-91
Owner Tank Id: J351995
SWRCB Tank Id: 48-000-050085-000003
Tank Status: A
Capacity: 12000
Active Date: 08-30-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 50085
Number: 1
Board Of Equalization: 44-031259
Referral Date: 08-30-93
Action Date: 03-02-94
Created Date: 10-09-91
Owner Tank Id: J5351996
SWRCB Tank Id: 48-000-050085-000004
Tank Status: A
Capacity: 12000
Active Date: 08-30-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 48002260
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 183 W MAIN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: VACAVILLE 95688
Contact: Not reported
Contact Phone: Not reported

NORCAL PETROLEUM/INTERSTATE OIL/COAST OIL CORP (Continued) **S101595182**

DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

C7 **INTERSTATE OIL COMPANY** **LUST** **S108432135**
North **917 COTTING LANE** **EMI** **N/A**
1/8-1/4 **VACAVILLE, CA 92101** **CERS**
0.174 mi.
920 ft. **Site 2 of 5 in cluster C**

Relative:
Higher

Actual:
112 ft.

LUST:
Lead Agency: SOLANO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000000211
Global Id: T10000000211
Latitude: 38.397474
Longitude: -121.953915
Status: Completed - Case Closed
Status Date: 07/24/2013
Case Worker: Not reported
RB Case Number: 480231
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 50085
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Not reported

LUST:
Global Id: T10000000211
Action Type: Other
Date: 08/14/2008
Action: Leak Stopped

Global Id: T10000000211
Action Type: ENFORCEMENT
Date: 07/02/2008
Action: File review

Global Id: T10000000211
Action Type: ENFORCEMENT
Date: 12/26/2008
Action: File review

Global Id: T10000000211
Action Type: Other
Date: 08/14/2008
Action: Leak Reported

Global Id: T10000000211
Action Type: ENFORCEMENT
Date: 07/27/2011
Action: Staff Letter

Global Id: T10000000211
Action Type: ENFORCEMENT

INTERSTATE OIL COMPANY (Continued) **S108432135**

Date: 07/24/2013
Action: Closure/No Further Action Letter

LUST:
Global Id: T10000000211
Status: Completed - Case Closed
Status Date: 07/24/2013

Global Id: T10000000211
Status: Open - Assessment & Interim Remedial Action
Status Date: 08/15/2008

Global Id: T10000000211
Status: Open - Case Begin Date
Status Date: 07/02/2008

Global Id: T10000000211
Status: Open - Eligible for Closure
Status Date: 06/11/2013

SOLANO CO. LUST:
Region: SOLANO
Facility ID: 50085
Facility Status: I
Facility Status Desc: Inactive
Facility Phone: 530-662-5481
Program: 29S
Inventory Number: 1
Inventory Type: LOP - Soil Site (127)
Inventory Description: Closed 2/27/15
Last service/permit exp: ISSUANCE OF A CLOSURE DOCUMENT
Last service date: 07/24/2013
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S
Call Back: Not reported

EMI:
Year: 2005
County Code: 48
Air Basin: SV
Facility ID: 5116
Air District Name: YS
SIC Code: 5541
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .3512998092943892401
Reactive Organic Gases Tons/Yr: .35
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2006

INTERSTATE OIL COMPANY (Continued) **S108432135**

County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3512998092943892401
Reactive Organic Gases Tons/Yr:	.35
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3814112215196226036
Reactive Organic Gases Tons/Yr:	.38
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.1907056107598113018
Reactive Organic Gases Tons/Yr:	.19
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD

INTERSTATE OIL COMPANY (Continued) **S108432135**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.19070561075981099
Reactive Organic Gases Tons/Yr:	0.19
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.20074274816822199
Reactive Organic Gases Tons/Yr:	0.20000000000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.20074274817
Reactive Organic Gases Tons/Yr:	0.2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.20074274817
Reactive Organic Gases Tons/Yr:	0.2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0

INTERSTATE OIL COMPANY (Continued) **S108432135**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.26
Reactive Organic Gases Tons/Yr:	0.26
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.26
Reactive Organic Gases Tons/Yr:	0.26
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2015
County Code:	48
Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.26
Reactive Organic Gases Tons/Yr:	0.26
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	48

INTERSTATE OIL COMPANY (Continued) **S108432135**

Air Basin:	SV
Facility ID:	5116
Air District Name:	YS
SIC Code:	5541
Air District Name:	YOLO-SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.3
Reactive Organic Gases Tons/Yr:	0.3
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

CERS TANKS:

Site ID:	215348
CERS ID:	T10000000211
CERS Description:	Leaking Underground Storage Tank Cleanup Site

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C8 **VACAVILLE CARDLOCK** **AST** **A100425711**
North **917 COTTING LN** **N/A**
1/8-1/4 **VACAVILLE, CA 95688**
0.174 mi.
920 ft. **Site 3 of 5 in cluster C**

Relative:
Higher

Actual:
112 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Inter-State Oil Co.
Total Gallons:	Not reported
CERSID:	10191109
Facility ID:	48-000-050085
Business Name:	Inter-State Oil Co.
Phone:	916-457-6572
Fax:	916-266-2424
Mailing Address:	8221 Alpine Avenue
Mailing Address City:	Sacramento
Mailing Address State:	CA
Mailing Address Zip Code:	95826
Operator Name:	Inter-State Oil Co.
Operator Phone:	916-812-9641
Owner Phone:	916-457-6572
Owner Mail Address:	8221 Alpine Avenue
Owner State:	CA
Owner Zip Code:	95826
Owner Country:	United States
Property Owner Name:	Inter-State Oil Co.
Property Owner Phone:	916-457-6572
Property Owner Mailing Address:	8221 Alpine Avenue
Property Owner City:	Sacramento
Property Owner Stat :	CA
Property Owner Zip Code:	95826
Property Owner Country:	United States
EPAID:	CAL000335468

C9 **VACAVILLE CARDLOCK** **CERS HAZ WASTE** **S121748916**
North **917 COTTING LN** **CERS TANKS** **N/A**
1/8-1/4 **VACAVILLE, CA 95688** **CERS**
0.174 mi.
920 ft. **Site 4 of 5 in cluster C**

Relative:
Higher

Actual:
112 ft.

CERS HAZ WASTE:
Site ID: 165379
CERS ID: 10191109
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2016
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the CUPA.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 12-09-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2016
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

VACAVILLE CARDLOCK (Continued) **S121748916**

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 11-01-2017
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.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 or a licensed tank tester.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-30-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 06/25/2015. Facility notified of missing monitoring and response plan on CERS from 3/2014, with no submittal as of yet. Submit monitoring and response plan within 30 days
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-03-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No observed violations
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 165379
Facility Name: Vacaville Cardlock

VACAVILLE CARDLOCK (Continued) **S121748916**

Env Int Type Code:	HWG
Program ID:	10191109
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.397070
Longitude:	-121.953810

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765

Affiliation Type Desc:	Environmental Contact
Entity Name:	Dominic Dacay
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Greg Andrews
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Identification Signer
Entity Name:	Dominic Dacay
Entity Title:	Operations Manger
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Type Desc:	Legal Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Property Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Operator
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 812-9641

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Dominic Dacay
Entity Title:	Director of Transportation & Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Document Preparer
Entity Name: Krystal Blythe
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Site ID: 165379
CERS ID: 10191109
CERS Description: Aboveground Petroleum Storage

Violations:
Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2016
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the CUPA.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 12-09-2015

VACAVILLE CARDLOCK (Continued) **S121748916**

Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2016
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 11-01-2017
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.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 or a licensed tank tester.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-30-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 06/25/2015. Facility notified of missing monitoring and response plan on CERS from 3/2014, with no submittal as of yet. Submit monitoring and response plan within 30 days
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all

VACAVILLE CARDLOCK (Continued) **S121748916**

required content.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-03-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No observed violations
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: APSA
Eval Source: CERS

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 165379
Facility Name: Vacaville Cardlock
Env Int Type Code: HWG
Program ID: 10191109
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.397070
Longitude: -121.953810

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Environmental Contact
Entity Name: Dominic Dacay
Entity Title: Not reported
Affiliation Address: 8221 Alpine Avenue
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 8221 Alpine Avenue
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Zip: 95826
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Operator
Entity Name: Greg Andrews
Entity Title: Not reported
Affiliation Address: 8221 ALPINE AVENUE
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Identification Signer
Entity Name: Dominic Dacay
Entity Title: Operations Manger
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: 8221 Alpine Avenue
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Property Owner
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: 8221 Alpine Avenue
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: UST Tank Owner
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: 8221 ALPINE AVENUE
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Operator
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 812-9641
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Dominic Dacay
Entity Title:	Director of Transportation & Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Document Preparer
Entity Name:	Krystal Blythe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Site ID:	165379
CERS ID:	10191109
CERS Description:	Underground Storage Tank

Violations:

Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-11-2016
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.

VACAVILLE CARDLOCK (Continued) **S121748916**

Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 12-09-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2016
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 11-01-2017
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.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 or a licensed tank tester.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: UST

VACAVILLE CARDLOCK (Continued) **S121748916**

Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-30-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 06/25/2015. Facility notified of missing monitoring and response plan on CERS from 3/2014, with no submittal as of yet. Submit monitoring and response plan within 30 days
Violation Division: Solano County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 165379
Site Name: Vacaville Cardlock
Violation Date: 10-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Not reported
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-03-2018

VACAVILLE CARDLOCK (Continued) **S121748916**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No observed violations

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 165379
Facility Name: Vacaville Cardlock
Env Int Type Code: HWG
Program ID: 10191109
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.397070
Longitude: -121.953810

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765
Affiliation Type Desc:	Environmental Contact
Entity Name:	Dominic Dacay
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Greg Andrews
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Identification Signer
Entity Name:	Dominic Dacay
Entity Title:	Operations Manger
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Property Owner
Entity Name:	Inter-State Oil Co.

VACAVILLE CARDLOCK (Continued) **S121748916**

Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Operator
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 812-9641
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Dominic Dacay
Entity Title:	Director of Transportation & Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572
Affiliation Type Desc:	Document Preparer
Entity Name:	Krystal Blythe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Type Desc:	Parent Corporation
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CERS TANKS:

Site ID:	165379
CERS ID:	10191109
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-11-2016
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-11-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	12-09-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-11-2016
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7,

VACAVILLE CARDLOCK (Continued) **S121748916**

	Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	11-01-2017
Citation:	23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description:	Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.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 or a licensed tank tester.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-30-2014
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 06/25/2015. Facility notified of missing monitoring and response plan on CERS from 3/2014, with no submittal as of yet. Submit monitoring and response plan within 30 days
Violation Division:	Solano County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	165379
Site Name:	Vacaville Cardlock
Violation Date:	10-11-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Not reported
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-11-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-03-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No observed violations
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-11-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-09-2015
Violations Found:	Yes

VACAVILLE CARDLOCK (Continued) **S121748916**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Coordinates:

Site ID:	165379
Facility Name:	Vacaville Cardlock
Env Int Type Code:	HWG
Program ID:	10191109
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.397070
Longitude:	-121.953810

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765

Affiliation Type Desc:	Environmental Contact
Entity Name:	Dominic Dacay
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95826
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Greg Andrews
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Type Desc:	Identification Signer
Entity Name:	Dominic Dacay
Entity Title:	Operations Manger
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Property Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 Alpine Avenue
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	8221 ALPINE AVENUE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95826
Affiliation Phone:	(916) 457-6572

Affiliation Type Desc:	Operator
Entity Name:	Inter-State Oil Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 812-9641

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Dominic Dacay
Entity Title:	Director of Transportation & Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

VACAVILLE CARDLOCK (Continued) **S121748916**

Affiliation Zip: Not reported
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: UST Property Owner Name
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: 8221 Alpine Avenue
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95826
Affiliation Phone: (916) 457-6572

Affiliation Type Desc: Document Preparer
Entity Name: Krystal Blythe
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Inter-State Oil Co.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C10 **VACAVILLE CARDLOCK** **UST** **U003641503**
North **917 COTTING LN** **N/A**
1/8-1/4 **VACAVILLE, CA 95688**
0.174 mi.
920 ft. **Site 5 of 5 in cluster C**

Relative: **Higher**

Actual: **112 ft.**

UST:
Facility ID: 48-000-050085
Permitting Agency: Solano County Environmental Health
Latitude: 38.39707
Longitude: -121.95381

Facility ID: 50085
Permitting Agency: SOLANO COUNTY
Latitude: 38.3985995
Longitude: -121.9523242

SOLANO CO. UST:
Facility Id: 50085
Facility Status: Active
Decode for Facility Status: Operating
Facility Phone: 530-662-5481

VACAVILLE CARDLOCK (Continued) **U003641503**

Inventory Number: 1
Inventory Type: General Underground Tank (110)
Inventory Description: Not reported
Permit Expire/Last Service: LETTER/REPORT REVIEW 10/31/18, 10/31/18
Last Service Date: 8/29/2018
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

Inventory Number: 2
Inventory Type: General Underground Tank (110)
Inventory Description: Not reported
Permit Expire/Last Service: ROUTINE - INITIAL (INVENTORIED) 10/31/18, 10/31/18
Last Service Date: 10/11/2017
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

Inventory Number: 3
Inventory Type: General Underground Tank (110)
Inventory Description: Not reported
Permit Expire/Last Service: ROUTINE - INITIAL (INVENTORIED) 10/31/18, 10/31/18
Last Service Date: 10/11/2017
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

Inventory Number: 4
Inventory Type: General Underground Tank (110)
Inventory Description: Not reported
Permit Expire/Last Service: FOLLOW UP 10/31/18, 10/31/18
Last Service Date: 5/3/2018
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

11
SW
1/8-1/4
0.212 mi.
1121 ft.

FULTON-PACIFIC
1060 AVIATOR DR
VACAVILLE, CA 95688

CERS HAZ WASTE **S121766962**
CERS **N/A**

Relative:
Higher

Actual:
123 ft.

CERS HAZ WASTE:
Site ID: 362497
CERS ID: 10654105
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

FULTON-PACIFIC (Continued) **S121766962**

Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
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.
Violation Notes:	Returned to compliance on 01/12/2016. Observed incomplete label.
Violation Division:	Solano County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015

FULTON-PACIFIC (Continued) **S121766962**

Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
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.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Document Preparer
Entity Name: Elisa Parker
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

FULTON-PACIFIC (Continued) **S121766962**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Elisa Parker
Entity Title:	Not reported
Affiliation Address:	1060 Piper Dr
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	(707) 446-6020
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1060 Piper Dr
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Rett Schuler
Entity Title:	General Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Rett Schuler
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 446-6020
Affiliation Type Desc:	Parent Corporation
Entity Name:	Fulton-Pacific
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Fulton-Pacific Packaging Company

FULTON-PACIFIC (Continued) **S121766962**

Entity Title: Not reported
Affiliation Address: 1060 Piper Dr
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 446-6020

CERS TANKS:
Site ID: 362497
CERS ID: 10654105
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/12/2016.
Violation Division: Solano County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 362497
Site Name: Fulton-Pacific
Violation Date: 11-17-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

FULTON-PACIFIC (Continued) **S121766962**

	Chapter 12, Section(s) 66262.34(f)
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.
Violation Notes:	Returned to compliance on 01/12/2016. Observed incomplete label.
Violation Division:	Solano County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
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.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	362497
Site Name:	Fulton-Pacific
Violation Date:	11-17-2015
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Solano County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-17-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Solano County Environmental Health
Eval Program:	HW
Eval Source:	CERS

FULTON-PACIFIC (Continued) **S121766962**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Solano County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Document Preparer
Entity Name: Elisa Parker
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Elisa Parker
Entity Title: Not reported
Affiliation Address: 1060 Piper Dr
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95688
Affiliation Phone: (707) 446-6020

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1060 Piper Dr
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95688
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Rett Schuler
Entity Title: General Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

FULTON-PACIFIC (Continued) **S121766962**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Rett Schuler
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (707) 446-6020

Affiliation Type Desc: Parent Corporation
Entity Name: Fulton-Pacific
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Fulton-Pacific Packaging Company
Entity Title: Not reported
Affiliation Address: 1060 Piper Dr
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 446-6020

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12 **BIG-O DISTRIBUTION CENTER** **LUST** **S104493321**
North **877 COTTING CT** **HIST UST** **N/A**
1/4-1/2 **VACAVILLE, CA 95688** **CHMIRS**
0.265 mi. **HIST CORTESE**
1397 ft. **CERS**

Relative: **Higher**
Actual: **114 ft.**

LUST:
Lead Agency: SOLANO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0609500418
Global Id: T0609500418
Latitude: 38.398508
Longitude: -121.954532
Status: Completed - Case Closed
Status Date: 08/09/1995
Case Worker: MCK
RB Case Number: 480178
Local Agency: SOLANO COUNTY LOP
File Location: Not reported
Local Case Number: 50096
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

BIG-O DISTRIBUTION CENTER (Continued) **S104493321**

LUST:
Global Id: T0609500418
Contact Type: Local Agency Caseworker
Contact Name: MISTY C. KALTREIDER
Organization Name: SOLANO COUNTY LOP
Address: 675 TEXAS STREET, SUITE 5500
City: FAIRFIELD
Email: mkaltreider@solanocounty.com
Phone Number: 7077846765

LUST:
Global Id: T0609500418
Action Type: Other
Date: 11/04/1993
Action: Leak Reported

Global Id: T0609500418
Action Type: ENFORCEMENT
Date: 07/14/1995
Action: Closure/No Further Action Letter

Global Id: T0609500418
Action Type: Other
Date: 11/18/1993
Action: Leak Discovery

Global Id: T0609500418
Action Type: Other
Date: 11/18/1993
Action: Leak Stopped

LUST:
Global Id: T0609500418
Status: Completed - Case Closed
Status Date: 08/09/1995

Global Id: T0609500418
Status: Open - Case Begin Date
Status Date: 11/04/1993

Global Id: T0609500418
Status: Open - Site Assessment
Status Date: 11/18/1993

LUST REG 5:
Region: 5
Status: Case Closed
Case Number: 480178
Case Type: Soil only
Substance: DIESEL
Staff Initials: JIM
Lead Agency: Local
Program: LUST
MTBE Code: N/A

BIG-O DISTRIBUTION CENTER (Continued) **S104493321**

SOLANO CO. LUST:

Region:	SOLANO
Facility ID:	50096
Facility Status:	I
Facility Status Desc:	Inactive
Facility Phone:	707-451-7013
Program:	29S
Inventory Number:	1
Inventory Type:	LOP - Closed Site (128)
Inventory Description:	Not reported
Last service/permit exp:	Not reported
Last service date:	Not reported
District:	SUP-DIST NO 3035
Inspector:	Clark, Max
Call Back:	Not reported

HIST UST:

File Number:	000211C0
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000211C0.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CHMIRS:

OES Incident Number:	17-1861
OES notification:	03/03/2017
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

BIG-O DISTRIBUTION CENTER (Continued) **S104493321**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	SEWAGE
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2017
Agency:	City of Vacaville
Incident Date:	03/03/2017
Admin Agency:	Solano County Environmental Management
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sewage - Raw
Quantity Released:	49.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Blockage in lateral line caused the release, material flowed from a clean out onto concrete and asphalt then into a storm basin, all material

BIG-O DISTRIBUTION CENTER (Continued) **S104493321**

was recovered, RP handled the containment and clean up.

HIST CORTESE:
Region: CORTESE
Facility County Code: 48
Reg By: LTNKA
Reg Id: 480178

CERS TANKS:
Site ID: 258669
CERS ID: T0609500418
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: MISTY C. KALTREIDER - SOLANO COUNTY LOP
Entity Title: Not reported
Affiliation Address: 675 TEXAS STREET, SUITE 5500
Affiliation City: FAIRFIELD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7077846765

13
NNW
1/4-1/2
0.344 mi.
1817 ft.

SPRIG CIRCUITS, INC.
765-A EUBANKS DRIVE (UNITS A,
VACAVILLE, CA 95688

RCRA-LQG **1000252519**
ENVIROSTOR **CAD980881098**

Relative:
Higher

Actual:
115 ft.

RCRA-LQG:
Date form received by agency: 05/28/2010
Facility name: SPRIG CIRCUITS, INC.
Facility address: 765-A EUBANKS DRIVE (UNITS A, B, & B-1)
VACAVILLE, CA 95688
EPA ID: CAD980881098
Mailing address: 765-A EUBANKS DR.
VACAVILLE, CA 95688
Contact: TYLER CHRISTENSEN
Contact address: 765-A EUBANKS DR.
VACAVILLE, CA 95688
Contact country: US
Contact telephone: 707-447-7744
Contact email: TYLER@SPRIGCIRCUITS.COIM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1

SPRIG CIRCUITS, INC. (Continued) **1000252519**

kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	SPRIG CIRCUITS INC
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KLP PROPERTIES
Owner/operator address:	4432 PIEDMONT AVENUE
	OAKLAND, CA 94611
Owner/operator country:	US
Owner/operator telephone:	510-654-4257
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/20/2005
Owner/Op end date:	Not reported

Owner/operator name:	SPRIG CIRCUITS, INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/01/1983

SPRIG CIRCUITS, INC. (Continued) **1000252519**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Historical Generators:
Date form received by agency: 02/11/2008
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

SPRIG CIRCUITS, INC. (Continued) **1000252519**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/28/2006
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007

SPRIG CIRCUITS, INC. (Continued) **1000252519**

. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/26/2004
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 03/04/2002
Site name: SPRIG CIRCUITS INC
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

SPRIG CIRCUITS, INC. (Continued) **1000252519**

Date form received by agency: 09/01/1996
Site name: SPRIG CIRCUITS INC
Classification: Large Quantity Generator

Date form received by agency: 02/28/1996
Site name: SPRIG CIRCUITS, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994
Site name: SPRING CIRCUITS INC
Classification: Large Quantity Generator

Date form received by agency: 02/25/1992
Site name: SPRIG CIRCUITS INC
Classification: Large Quantity Generator

Date form received by agency: 12/20/1983
Site name: SPRIG CIRCUITS INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 11/17/2010
Date achieved compliance: 03/22/2011
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 08/15/1988
Date achieved compliance: 11/19/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 08/15/1988
Date achieved compliance: 11/19/1992
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/21/1989
Enf. disposition status: Not reported

SPRIG CIRCUITS, INC. (Continued) **1000252519**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 17000
Final penalty amount: 17000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/1988
Date achieved compliance: 11/19/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/21/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 17000
Final penalty amount: 17000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/1988
Date achieved compliance: 11/19/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 05/19/1988
Date achieved compliance: 07/27/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/17/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/22/2011
Evaluation lead agency: EPA

Evaluation date: 08/15/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

SPRIG CIRCUITS, INC. (Continued) **1000252519**

Area of violation: LDR - General
Date achieved compliance: 11/19/1992
Evaluation lead agency: State

Evaluation date: 08/15/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/19/1989
Evaluation lead agency: State

Evaluation date: 05/19/1988
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: LDR - General
Date achieved compliance: 07/27/1989
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 71002695
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Sacramento
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.39914
Longitude: -121.9581
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD980881098
Alias Type: EPA Identification Number
Alias Name: 110000886872
Alias Type: EPA (FRS #)
Alias Name: 71002695
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

SPRIG CIRCUITS, INC. (Continued) **1000252519**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

14
North
1/4-1/2
0.426 mi.
2249 ft.

Relative:
Higher

Actual:
117 ft.

ALL WEATHER INSULATED PANELS
929 ALDRIDGE RD
VACAVILLE, CA 95688

LUST **U003641455**
UST **N/A**
CERS HAZ WASTE
EMI
WDS
CIWQS
CERS

SOLANO CO. LUST:
Region: SOLANO
Facility ID: 50022
Facility Status: I
Facility Status Desc: Inactive
Facility Phone: 707-359-2280
Program: 29S
Inventory Number: 1
Inventory Type: LOP - Closed Site (128)
Inventory Description: Not reported
Last service/permit exp: ADMINISTRATION SUPPORT
Last service date: 12/11/2002
District: SUP-DIST NO 3036
Inspector: Bernardo, Josuwa
Call Back: Not reported

SOLANO CO. UST:
Facility Id: 50022
Facility Status: Inactive
Decode for Facility Status: Closed
Facility Phone: 707-359-2280

Inventory Number: 1
Inventory Type: Underground Storage Tank (1)
Inventory Description: Not reported
Permit Expire/Last Service: 3/31/1992
Last Service Date: Not reported
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

Inventory Number: 2
Inventory Type: Underground Storage Tank (1)
Inventory Description: Not reported
Permit Expire/Last Service: 3/31/1992
Last Service Date: Not reported
District: SUP-DIST NO 3031
Inspector: Ambrose, Chris S

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

CERS HAZ WASTE:
Site ID: 435619
CERS ID: 10759198
CERS Description: Hazardous Waste Generator

Coordinates:
Site ID: 435619
Facility Name: All Weather Insulated Panels
Env Int Type Code: HMBP
Program ID: 10759198
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 38.400600
Longitude: -121.954300

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: All Weather Insulated Panels
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: All Weather Insulated Panels
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (707) 359-2280

Affiliation Type Desc: Property Owner
Entity Name: All Weather Architectural Aluminum
Entity Title: Not reported
Affiliation Address: 777 Aldridge Rd
Affiliation City: Vacaville
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95688
Affiliation Phone: (707) 452-1600

Affiliation Type Desc: CUPA District
Entity Name: Solano County Env Health
Entity Title: Not reported
Affiliation Address: 675 Texas Street, Suite 5500
Affiliation City: Fairfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94533
Affiliation Phone: (707) 784-6765

Affiliation Type Desc: Document Preparer

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

Entity Name:	Brian Ng
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Brian Ng
Entity Title:	Not reported
Affiliation Address:	929 Aldridge Road
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	(707) 359-2280

Affiliation Type Desc:	Legal Owner
Entity Name:	Pre Insulated Metal Technologies Inc
Entity Title:	Not reported
Affiliation Address:	bng@awipanels.com
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 359-2280

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	929 Aldridge Road
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Brian Ng
Entity Title:	Technical Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

EMI:

Year:	2013
County Code:	48
Air Basin:	SV
Facility ID:	5525
Air District Name:	YS
SIC Code:	3448

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.085714285714
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.06

Year:	2014
County Code:	48
Air Basin:	SV
Facility ID:	5525
Air District Name:	YS
SIC Code:	3448
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.085714285714
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.06

Year:	2015
County Code:	48
Air Basin:	SV
Facility ID:	5525
Air District Name:	YS
SIC Code:	3448
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.085714285714
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.06

Year:	2016
County Code:	48
Air Basin:	SV
Facility ID:	5525
Air District Name:	YS
SIC Code:	3448
Air District Name:	YOLO-SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.065456545655
Reactive Organic Gases Tons/Yr:	0.04
Carbon Monoxide Emissions Tons/Yr:	0.49

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

NOX - Oxides of Nitrogen Tons/Yr: 0.58
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.16285714286
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.12

WDS:

Facility ID:	5S 48I018235
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	7074475014
Facility Contact:	James Morrison
Agency Name:	SHAW PIPING ENGINEERING & HANG
Agency Address:	1040 Jack Wells Blvd
Agency City,St,Zip:	Shreveport 711077039
Agency Contact:	Stan Kukulka
Agency Telephone:	2259322500
Agency Type:	?
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Agency:	Shaw Piping Engineering & Hang
Agency Address:	1040 Jack Wells Blvd, Shreveport, LA 71107
Place/Project Type:	Industrial - Fabricated Pipe and Pipe Fittings

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

SIC/NAICS:	3498
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S48I018235
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	07/01/2003
Termination Date:	12/20/2004
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.400554
Longitude:	-121.95345

CERS TANKS:

Site ID:	435619
CERS ID:	10759198
CERS Description:	Chemical Storage Facilities

Coordinates:

Site ID:	435619
Facility Name:	All Weather Insulated Panels
Env Int Type Code:	HMBP
Program ID:	10759198
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	38.400600
Longitude:	-121.954300

Affiliation:

Affiliation Type Desc:	Parent Corporation
Entity Name:	All Weather Insulated Panels
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	All Weather Insulated Panels
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 359-2280

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

Affiliation Type Desc:	Property Owner
Entity Name:	All Weather Architectural Aluminum
Entity Title:	Not reported
Affiliation Address:	777 Aldridge Rd
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 452-1600

Affiliation Type Desc:	CUPA District
Entity Name:	Solano County Env Health
Entity Title:	Not reported
Affiliation Address:	675 Texas Street, Suite 5500
Affiliation City:	Fairfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94533
Affiliation Phone:	(707) 784-6765

Affiliation Type Desc:	Document Preparer
Entity Name:	Brian Ng
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Brian Ng
Entity Title:	Not reported
Affiliation Address:	929 Aldridge Road
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95688
Affiliation Phone:	(707) 359-2280

Affiliation Type Desc:	Legal Owner
Entity Name:	Pre Insulated Metal Technologies Inc
Entity Title:	Not reported
Affiliation Address:	bng@awipanels.com
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95688
Affiliation Phone:	(707) 359-2280

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	929 Aldridge Road
Affiliation City:	Vacaville
Affiliation State:	CA
Affiliation Country:	Not reported

ALL WEATHER INSULATED PANELS (Continued) **U003641455**

Affiliation Zip:	95688
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Brian Ng
Entity Title:	Technical Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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15 **PACIFIC SPECTRUM GLASS** **LUST** **S104493318**
North **909 ALDRIDGE RD** **SWEEPS UST** **N/A**
1/4-1/2 **VACAVILLE, CA 95688** **HIST CORTESE**
0.489 mi.
2582 ft.

Relative:
Higher

Actual:
119 ft.

LUST:

Lead Agency:	SOLANO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0609500407
Global Id:	T0609500407
Latitude:	38.401741
Longitude:	-121.953674
Status:	Completed - Case Closed
Status Date:	06/02/1998
Case Worker:	MCK
RB Case Number:	480167
Local Agency:	SOLANO COUNTY LOP
File Location:	Not reported
Local Case Number:	50022
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0609500407
Contact Type:	Local Agency Caseworker
Contact Name:	MISTY C. KALTREIDER
Organization Name:	SOLANO COUNTY LOP
Address:	675 TEXAS STREET, SUITE 5500
City:	FAIRFIELD
Email:	mkaltreider@solanocounty.com
Phone Number:	7077846765

LUST:

Global Id:	T0609500407
Action Type:	Other
Date:	02/16/1993
Action:	Leak Reported
Global Id:	T0609500407
Action Type:	Other
Date:	06/02/1992
Action:	Leak Discovery

PACIFIC SPECTRUM GLASS (Continued) **S104493318**

LUST:
Global Id: T0609500407
Status: Completed - Case Closed
Status Date: 06/02/1998

Global Id: T0609500407
Status: Open - Case Begin Date
Status Date: 06/02/1992

Global Id: T0609500407
Status: Open - Remediation
Status Date: 05/10/1994

Global Id: T0609500407
Status: Open - Site Assessment
Status Date: 02/22/1993

Global Id: T0609500407
Status: Open - Site Assessment
Status Date: 05/12/1993

LUST REG 5:
Region: 5
Status: Case Closed
Case Number: 480167
Case Type: Soil only
Substance: DIESEL
Staff Initials: JIM
Lead Agency: Local
Program: LUST
MTBE Code: N/A

SWEEPS UST:
Status: Not reported
Comp Number: 50022
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 48-000-050022-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 50022
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported

PACIFIC SPECTRUM GLASS (Continued) **S104493318**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	48-000-050022-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	48
Reg By:	LTNKA
Reg Id:	480167

16
WSW
1/2-1
0.670 mi.
3539 ft.

COURT GALVANIZING, INC.
4937 ALLISON PARKWAY
VACAVILLE, CA 95688

RCRA-LQG **1007200286**
ENVIROSTOR **CAL000126952**
NPDES
CIWQS

Relative:
Higher

Actual:
133 ft.

RCRA-LQG:

Date form received by agency:	02/26/2006
Facility name:	COURT GALVANIZING, INC.
Facility address:	4937 ALLISON PARKWAY VACAVILLE, CA 95688
EPA ID:	CAL000126952
Contact:	JAN REID
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	707-448-4848
Telephone ext.:	104
Contact email:	NA
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	COURT GALVANIZING, INC.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US

COURT GALVANIZING, INC. (Continued) **1007200286**

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/26/1994
Owner/Op end date: Not reported

Owner/operator name: COURT GALVANIZING, INC.
Owner/operator address: 4937 ALLISON PARKWAY
VACAVILLE, CA 95688
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/26/1994
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 02/26/2004
Site name: COURT GALVANIZING, INC.
Classification: Large Quantity Generator

. Waste code: D007
. Waste name: CHROMIUM

Date form received by agency: 02/26/2002
Site name: COURT GALVANIZING INC
Classification: Large Quantity Generator

COURT GALVANIZING, INC. (Continued) **1007200286**

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71003336
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Sacramento
Assembly: 11
Senate: 03
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.38924
Longitude: -121.9658
APN: 0133220130, 0133220140, 0133220150, 0133220160, 0133330190
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 0133220130
Alias Type: APN
Alias Name: 0133220140
Alias Type: APN
Alias Name: 0133220150
Alias Type: APN
Alias Name: 0133220160
Alias Type: APN
Alias Name: 0133330190
Alias Type: APN
Alias Name: CAL000126952
Alias Type: EPA Identification Number
Alias Name: 71003336
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

NPDES:

Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	202038
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S48I012249
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/10/1996
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	4937 Allison Pkwy
Discharge Name:	Court Galvanizing
Discharge City:	Vacaville
Discharge State:	California
Discharge Zip:	95688
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	202038
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S48I012249
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/10/1996
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Court Galvanizing
Discharge Address:	4937 Allison Pkwy
Discharge City:	Vacaville
Discharge State:	California
Discharge Zip:	95688
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	202038
Order Number:	Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S48I012249
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/10/1996
Status:	Active
Status Date:	04/10/1996
Place Size:	2.14
Place Size Unit:	Acres
Contact:	Jan Reid
Contact Title:	Not reported
Contact Phone:	707-448-4848
Contact Phone Ext:	Not reported
Contact Email:	janreid@courtgalvanizinginc.com
Operator Name:	Court Galvanizing
Operator Address:	4937 Allison Pkwy
Operator City:	Vacaville
Operator State:	California
Operator Zip:	95688
Operator Contact:	Bill Armstrong
Operator Contact Title:	General Manager
Operator Contact Phone:	707-448-4848
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	billarmstrong@courtgalvanizinginc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	707-448-4848
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Horse Creekulatis Creek
Certifier:	William Armstrong
Certifier Title:	General Manager
Certification Date:	23-JUN-15
Primary Sic:	3479-Coating, Engraving, and Allied Services, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S48I012249
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/10/1996
Operator Name:	Court Galvanizing
Operator Address:	4937 Allison Pkwy
Operator City:	Vacaville
Operator State:	California
Operator Zip:	95688

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	202038
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S48I012249
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/10/1996
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Court Galvanizing
Discharge Address:	4937 Allison Pkwy

COURT GALVANIZING, INC. (Continued) **1007200286**

Discharge City:	Vacaville
Discharge State:	California
Discharge Zip:	95688
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	202038
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S48I012249
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/10/1996
Status:	Active
Status Date:	04/10/1996
Place Size:	2.14
Place Size Unit:	Acres
Contact:	Jan Reid
Contact Title:	Not reported
Contact Phone:	707-448-4848
Contact Phone Ext:	Not reported
Contact Email:	janreid@courtgalvanizinginc.com
Operator Name:	Court Galvanizing
Operator Address:	4937 Allison Pkwy
Operator City:	Vacaville
Operator State:	California
Operator Zip:	95688
Operator Contact:	Bill Armstrong
Operator Contact Title:	General Manager
Operator Contact Phone:	707-448-4848
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	billarmstrong@courtgalvanizinginc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	707-448-4848
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported

COURT GALVANIZING, INC. (Continued) **1007200286**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Horse Creekulatis Creek
Certifier:	William Armstrong
Certifier Title:	General Manager
Certification Date:	23-JUN-15
Primary Sic:	3479-Coating, Engraving, and Allied Services, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Court Galvanizing
Agency Address:	4937 Allison Pkwy, Vacaville, CA 95688
Place/Project Type:	Industrial - Coating, Engraving, and Allied Services, NEC
SIC/NAICS:	3479
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S48I012249
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/10/1996
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.38923
Longitude:	-121.965815

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/02/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

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.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The 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 deed restrictions that are active. Some sites have multiple deed restrictions. The 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.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/19/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/31/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 46

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/06/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/04/2018
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/31/2018
Date Made Active in Reports: 12/20/2018
Number of Days to Update: 50

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/31/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

J&P HOSPITALITY
VACA VALLEY PKWY/E MONTE VISTA AVE
VACAVILLE, CA 95688

TARGET PROPERTY COORDINATES

Latitude (North):	38.39395 - 38° 23' 38.22''
Longitude (West):	121.95437 - 121° 57' 15.73''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	591313.7
UTM Y (Meters):	4249837.0
Elevation:	108 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5629044 ALLENDALE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

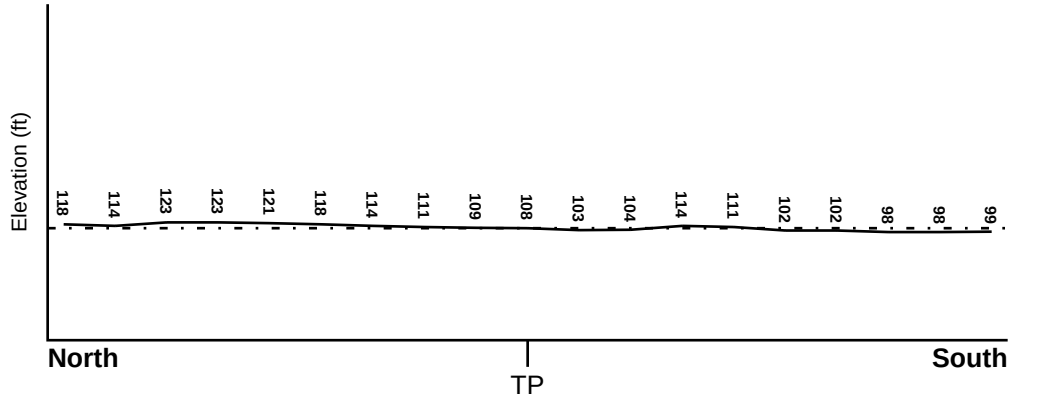
TOPOGRAPHIC INFORMATION

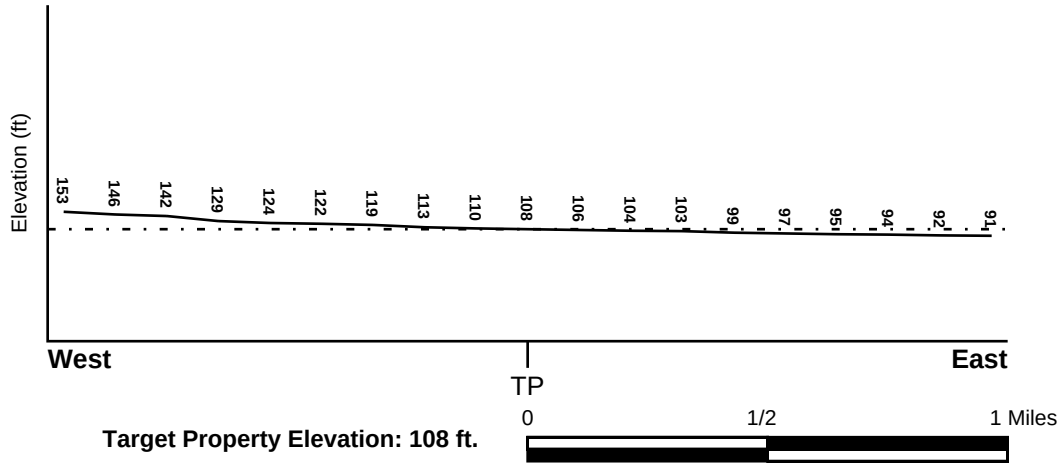
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





0 1/2 1 Miles

Target Property Elevation: 108 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06095C0164E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06095C0162F	FEMA FIRM Flood data
06095C0168E	FEMA FIRM Flood data
06095C0163E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ALLENDALE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile NNW	SE
6	1/4 - 1/2 Mile North	ESE
7	1/2 - 1 Mile NNE	SW
1G	1/4 - 1/2 Mile North	ESE
2G	1/2 - 1 Mile NNE	SW
3G	1/4 - 1/2 Mile NNW	SE

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

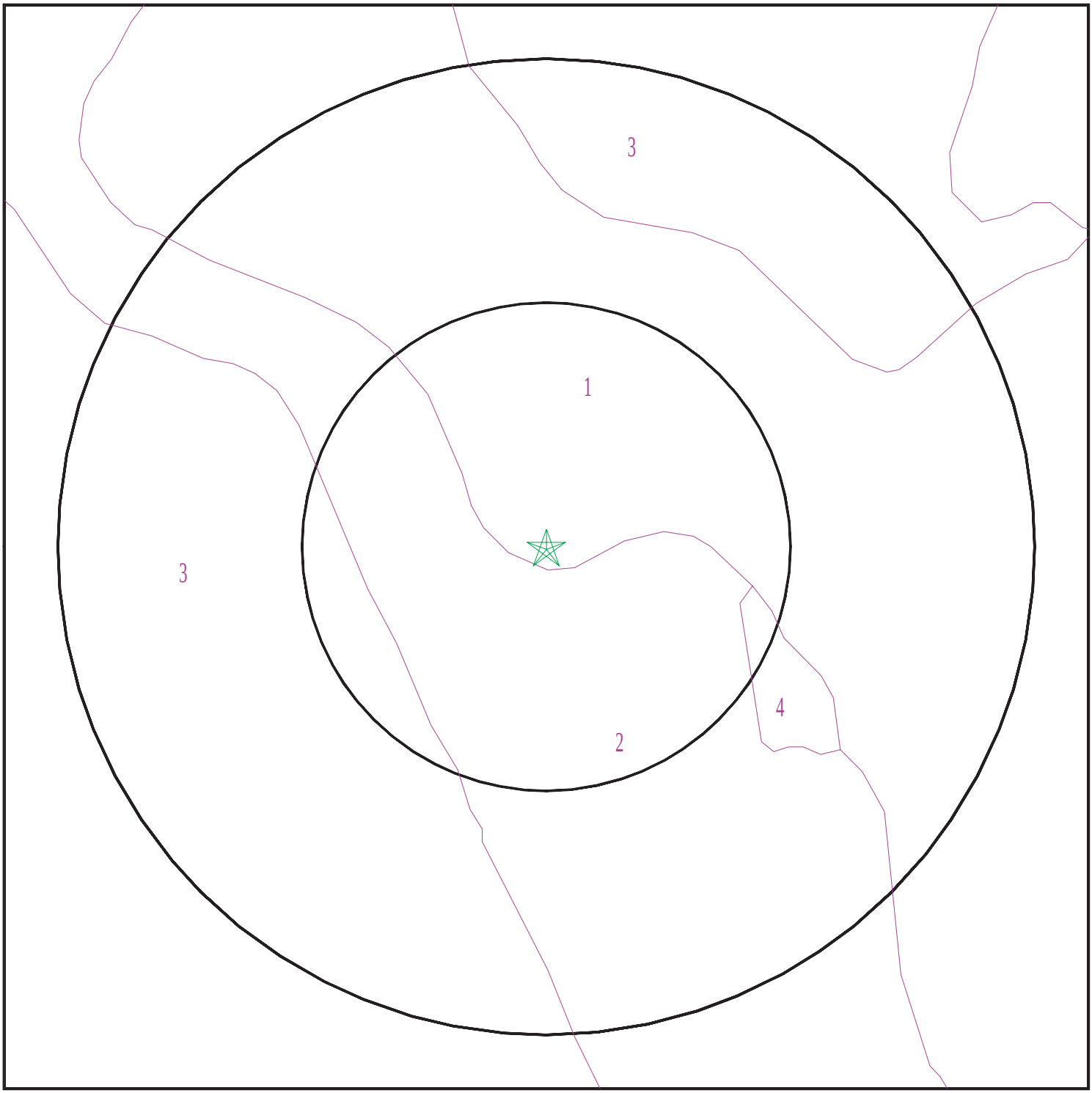
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5537022.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	J&P Hospitality	CLIENT:	K.C. Engineering Company
ADDRESS:	Vaca Valley Pkwy/E Monte Vista Ave Vacaville CA 95688	CONTACT:	Amy Lee
LAT/LONG:	38.39395 / 121.95437	INQUIRY #:	5537022.2s
		DATE:	January 17, 2019 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: San Ysidro

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	14 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	27 inches	53 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
4	53 inches	68 inches	stratified sandy loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: Rincon

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
2	22 inches	44 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
3	44 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 3

Soil Component Name: Corning

Soil Surface Texture: gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	16 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	25 inches	59 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: Clear Lake

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 138 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	44 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	44 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40000188109	1/4 - 1/2 Mile North
8	USGS40000188120	1/2 - 1 Mile NW
B9	USGS40000188131	1/2 - 1 Mile NNE
10	USGS40000188132	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

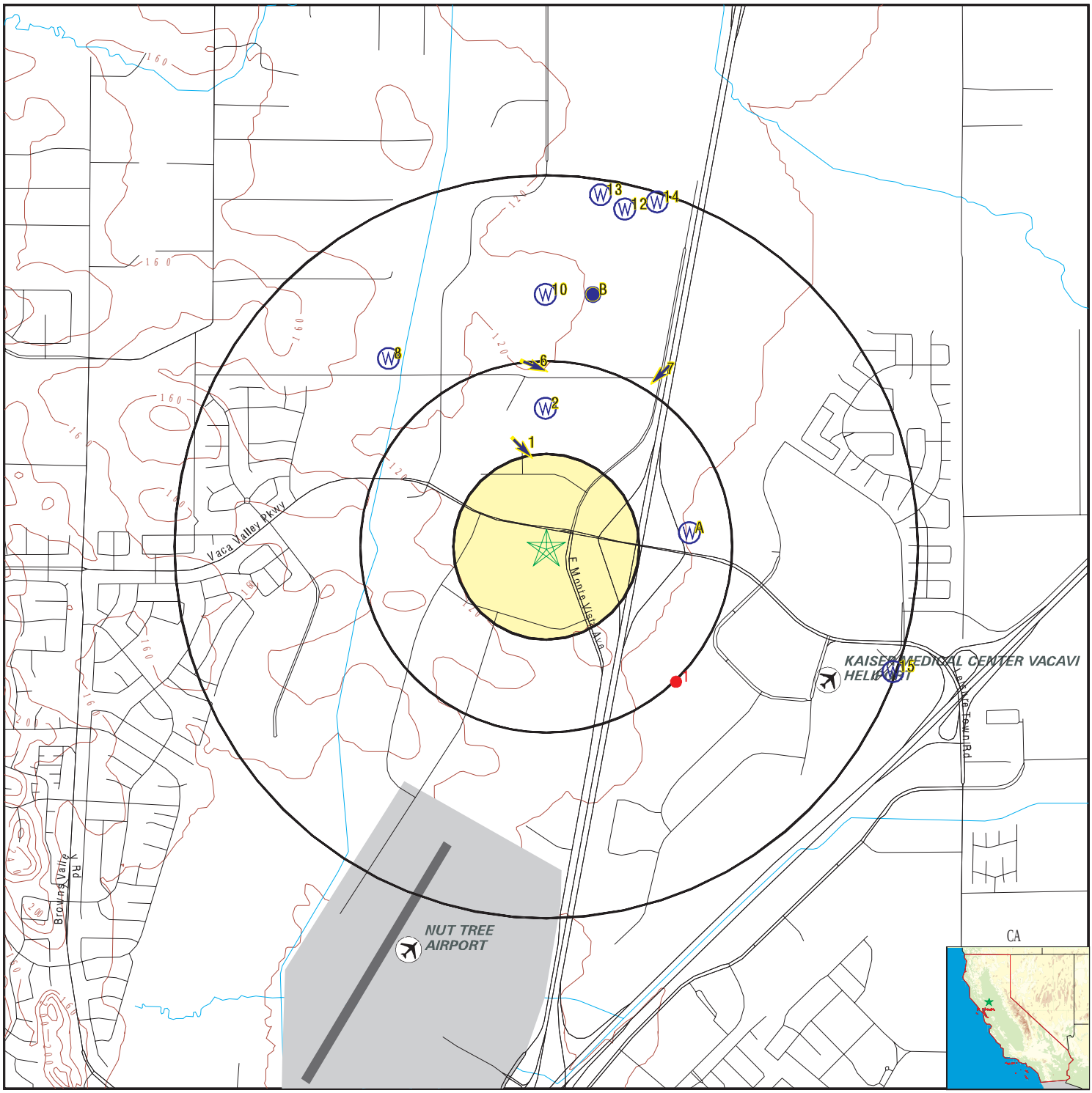
MAP ID	WELL ID	LOCATION FROM TP
A3	CADW60000003394	1/4 - 1/2 Mile East
A4	CADW60000003578	1/4 - 1/2 Mile East
A5	CADW60000003577	1/4 - 1/2 Mile East
B11	20339	1/2 - 1 Mile North
12	7290	1/2 - 1 Mile NNE
13	20340	1/2 - 1 Mile North
14	20341	1/2 - 1 Mile NNE
15	20363	1/2 - 1 Mile ESE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000237999	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 5537022.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	J&P Hospitality	CLIENT:	K.C. Engineering Company
ADDRESS:	Vaca Valley Pkwy/E Monte Vista Ave Vacaville CA 95688	CONTACT:	Amy Lee
LAT/LONG:	38.39395 / 121.95437	INQUIRY #:	5537022.2s
		DATE:	January 17, 2019 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
1 **NNW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SE Not Reported Not Reported 54 07/11/1995	**AQUIFLOW**	**53005**

2
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000188109**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006N001W03A002M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19760707	Well Depth:	280
Well Depth Units:	ft	Well Hole Depth:	280
Well Hole Depth Units:	ft		

A3
East
1/4 - 1/2 Mile
Lower

CA WELLS **CADW60000003394**

Objectid:	3394	Latitude:	38.394498
Longitude:	-121.947271	Site code:	383945N1219473W002
State well numbe:	Not Reported	Local well name:	'CofV MW-16-1166ft'
Well use id:	1	Well use descrip:	Observation
County id:	48	County name:	Solano
Basin code:	'5-21.66'	Basin desc:	Solano
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000003394		

A4
East
1/4 - 1/2 Mile
Lower

CA WELLS **CADW60000003578**

Objectid:	3578	Latitude:	38.394501
Longitude:	-121.947271	Site code:	383945N1219473W003
State well numbe:	Not Reported	Local well name:	'CofV MW-16-1430ft'
Well use id:	1	Well use descrip:	Observation
County id:	48	County name:	Solano
Basin code:	'5-21.66'	Basin desc:	Solano
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000003578		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A5 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADW60000003577**

Objectid:	3577	Latitude:	38.394498
Longitude:	-121.94727	Site code:	383945N1219473W001
State well numbe:	Not Reported	Local well name:	'CofV MW-16-117ft'
Well use id:	1	Well use descrip:	Observation
County id:	48	County name:	Solano
Basin code:	'5-21.66'	Basin desc:	Solano
Dwr region id:	80236	Dwr region:	North Central Region Office
Site id:	CADW60000003577		

---

6 **North** **1/4 - 1/2 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**53090**
	Groundwater Flow:	ESE		
	Shallow Water Depth:	35		
	Deep Water Depth:	67		
	Average Water Depth:	Not Reported		
	Date:	03/26/1997		

---

7 **NNE** **1/2 - 1 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**53095**
	Groundwater Flow:	SW		
	Shallow Water Depth:	29.46		
	Deep Water Depth:	31.04		
	Average Water Depth:	Not Reported		
	Date:	08/04/1994		

8
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000188120**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006N001W03C001M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19761124	Well Depth:	260
Well Depth Units:	ft	Well Hole Depth:	260
Well Hole Depth Units:	ft		

B9
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000188131**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N001W34R002M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720229	Well Depth:	1000
Well Depth Units:	ft	Well Hole Depth:	1018
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1972-02-29
Feet below surface:	66.42	Feet to sea level:	Not Reported
Note:	Not Reported		

10
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000188132**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N001W34R001M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19740628	Well Depth:	236
Well Depth Units:	ft	Well Hole Depth:	236
Well Hole Depth Units:	ft		

B11
North
1/2 - 1 Mile
Higher

CA WELLS **20339**

Seq:	20339	Prim sta c:	4800595-002
Frds no:	4800595002	County:	48
District:	04	User id:	ENG
System no:	4800595	Water type:	G
Source nam:	WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	382415.0	Longitude:	1215705.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	4800595	System nam:	INTERNATIONAL HOME FOODS, INC.
Hqname:	Not Reported	Address:	500 CROCKER RD.
City:	VACAVILLE	State:	CA
Zip:	95688	Zip ext:	Not Reported
Pop serv:	700	Connection:	1
Area serve:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

12
NNE
1/2 - 1 Mile
Higher | **CA WELLS** | **7290**

Seq:	7290	Prim sta c:	07N/01W-35M01 M
Frds no:	4800595001	County:	48
District:	04	User id:	ENG
System no:	4800595	Water type:	G
Source nam:	WELL 05	Station ty:	WELL/AMBNT
Latitude:	382426.0	Longitude:	1215658.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	4800595	System nam:	INTERNATIONAL HOME FOODS, INC.
Hqname:	Not Reported	Address:	500 CROCKER RD.
City:	VACAVILLE	State:	CA
Zip:	95688	Zip ext:	Not Reported
Pop serv:	700	Connection:	1
Area serve:	Not Reported		

Sample date:	24-OCT-17	Finding:	0.95
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	16-MAR-17	Finding:	8.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	29-DEC-16	Finding:	9.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	26-SEP-16	Finding:	10.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	07-SEP-16	Finding:	1.26
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	07-SEP-16	Finding:	1.24
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	07-SEP-16	Finding:	0.96
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	07-SEP-16	Finding:	0.19
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	07-SEP-16	Finding:	3.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	07-SEP-16	Finding:	140.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-SEP-16	Finding:	11.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-SEP-16	Finding:	12.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	29-SEP-15	Finding:	4.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	8.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	10-SEP-14	Finding:	3.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-14	Finding:	12.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-AUG-13	Finding:	130.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	12-AUG-13	Finding:	3.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-AUG-13	Finding:	4.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	4.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

13
North
1/2 - 1 Mile
Higher

CA WELLS **20340**

Seq:	20340	Prim sta c:	4800595-003
Frds no:	4800595003	County:	48
District:	04	User id:	ENG
System no:	4800595	Water type:	G
Source nam:	WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	382428.0	Longitude:	1215702.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	4800595	System nam:	INTERNATIONAL HOME FOODS, INC.
Hqname:	Not Reported	Address:	500 CROCKER RD.
City:	VACAVILLE	State:	CA
Zip:	95688	Zip ext:	Not Reported
Pop serv:	700	Connection:	1
Area serve:	Not Reported		

14
NNE
1/2 - 1 Mile
Higher

CA WELLS 20341

Seq:	20341	Prim sta c:	4800595-004
Frds no:	4800595004	County:	48
District:	04	User id:	ENG
System no:	4800595	Water type:	G
Source nam:	WELL 06	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	382427.0	Longitude:	1215652.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	4800595	System nam:	INTERNATIONAL HOME FOODS, INC.
Hqname:	Not Reported	Address:	500 CROCKER RD.
City:	VACAVILLE	State:	CA
Zip:	95688	Zip ext:	Not Reported
Pop serv:	700	Connection:	1
Area serve:	Not Reported		
Sample date:	24-OCT-17	Finding:	0.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-DEC-16	Finding:	28.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-SEP-16	Finding:	26.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-SEP-16	Finding:	0.79
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-SEP-16	Finding:	0.27
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-SEP-16	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-SEP-16	Finding:	210.
Chemical:	BARIUM	Report units:	UG/L

Dlr:	100.		
Sample date:	07-SEP-16	Finding:	26.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-SEP-16	Finding:	27.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	07-SEP-16	Finding:	1.21
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	1.23
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-SEP-15	Finding:	3.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	10.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	10-SEP-14	Finding:	3.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-14	Finding:	21.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-AUG-13	Finding:	11.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	12-AUG-13	Finding:	160.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	12-AUG-13	Finding:	0.18
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-AUG-13	Finding:	3.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	4.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

15
ESE
1/2 - 1 Mile
Lower

CA WELLS **20363**

Seq:	20363	Prim sta c:	4800797-001
Frds no:	4800797001	County:	48

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District:	04	User id:	ENG
System no:	4800797	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT
Latitude:	382281.0	Longitude:	1215610.5
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	4800797	System nam:	BIRDS LANDING HUNTING PRESERVE
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

Sample date:	29-MAR-17	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-SEP-16	Finding:	1.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-OCT-15	Finding:	3.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	12-JUN-14	Finding:	6.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-JUL-13	Finding:	6.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	03-AUG-12	Finding:	5.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

1G
North
1/4 - 1/2 Mile
Lower

Site ID:	Not Reported
Groundwater Flow:	ESE
Shallow Water Depth:	35
Deep Water Depth:	67
Average Water Depth:	Not Reported
Date:	03/26/1997

AQUIFLOW **53090**

2G
NNE
1/2 - 1 Mile
Lower

Site ID:	Not Reported
Groundwater Flow:	SW
Shallow Water Depth:	29.46
Deep Water Depth:	31.04
Average Water Depth:	Not Reported
Date:	08/04/1994

AQUIFLOW **53095**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
3G **NNW** **1/4 - 1/2 Mile** **Lower**	Site ID:	Not Reported	**AQUIFLOW**	**53005**
	Groundwater Flow:	SE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	54		
	Date:	07/11/1995		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000237999**

Districtnu:	6	Apinumber:	09520386
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Cabeen Exploration Corp.	Countyname:	Solano
Fieldname:	Any Field	Areaname:	Any Area
Section:	2	Township:	06N
Range:	01W	Basemeridi:	MD
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Status Code 006
Leasename:	Shellhammer	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	24-NOV-78
Welldeptha:	8690	Redrillfoo:	0
Abandonedd:	15-MAY-79	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000237999		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95688	14	0

Federal EPA Radon Zone for SOLANO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95688

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix D

Qualifications Statement

865 Cotting Lane, Suite A
Vacaville, California 95688
(707) 447-4025, fax 447-4143

8798 Airport Road
Redding, California 96002
(530) 222-0832, fax 222-1611

KC ENGINEERING COMPANY

A SUBSIDIARY OF MATERIALS TESTING, INC.
www.mti-kcgeotech.com



2015 CURRICULUM VITAE / RESUME

DAVID V. CYMANSKI, P.E., G.E.

Education: 1990 - Bachelor of Science in Civil Engineering
California State University at Chico

Affiliations: American Society of Civil Engineers, Geo Institute (ASCE)
California Geotechnical Engineers Association (CalGeo)
California Council of Testing and Inspection Agencies (CCTIA)
ACI, PTI, ACEC & ASTM

Registrations: 1994 - California Registered Civil Engineer, C 51421
2003 - California Registered Geotechnical Engineer, GE 2585
2008 - Oregon Registered Professional Geotechnical Engineer, P.E. #80732

Certifications: 1990 - Certified Special Inspector, Reinforced Concrete, ICC #1064377-88
1990 - ACI Concrete Field Testing Technician – Grade I, #00947884

EXPERIENCE

1996 to Present **MATERIALS TESTING, INC. /KC ENGINEERING CO., Vacaville & Redding, CA**

- Owner, President & Principal Engineer
- Responsible charge of geotechnical engineering, materials testing, special inspection and environmental consulting.
- Manage and perform subsurface investigation and geotechnical design activities.
- Manage Environmental Site Assessments.
- Perform geotechnical Expert Witness services; construction materials evaluations, and forensic studies of distressed structures, concrete foundations, pavements, retaining walls, drainage & landslides.
- Engineering oversight and compaction testing for all grading, excavation and earthwork filling operations.
- Evaluate and test subsurface ground improvement construction & underground utility backfill placement.
- Analyze and recommend pavement designs including lime & cement modification and stabilization.
- Foundation design and review including piling, drilled piers, caissons, footings & post-tension slabs.
- Provide soil criteria and analysis of soil nail, tie-back, MSE, CMU & conventional retaining walls.
- Evaluate and analysis of global slope stability, landslides & earth movement.
- Bridge, dams and canal studies.
- Responsible Engineer for **MTI-KCE** laboratory and special inspection services in soils, reinforced concrete, hot mix asphalt, post-tensioning, structural masonry, reinforcing, high-strength bolting, structural steel welding, non-destructive examination and fireproofing.

1989 to 1996 **TERRASEARCH, INC., Fairfield & Dublin, CA**

- Project Engineer & Staff Engineer.
- Perform geotechnical engineering investigations for commercial, industrial, residential and public works.
- Perform compaction testing of earthwork operations.
- Perform special inspections of reinforced and pre-stressed concrete, structural masonry & structural steel.
- Supervise engineering technicians and laboratory during grading and foundation operations.
- Review civil and structural plans for geotechnical conformance.
- Evaluate distressed structures and perform forensic investigations of earthwork projects.

865 Cotting Lane, Suite A
Vacaville, California 95688
(707) 447-4025, fax 447-4143

8798 Airport Road
Redding, California 96002
(530) 222-0832, fax 222-1611

KC ENGINEERING COMPANY
A SUBSIDIARY OF MATERIALS TESTING, INC.

AMY E. LEE Years in Field: 24
Environmental Professional Years with **KC ENGINEERING COMPANY**: 17

EDUCATION:

B.S., Forestry and Natural Resources Management
California Polytechnic State University, San Luis Obispo, CA, GPA 3.5

REGISTRATIONS:

REPA – Registered Environmental Property Assessor #157732
REA - Registered Environmental Assessor I-07387 from 1999 through 2012 (program terminated on July 1, 2012)
OSHA/EPA 40-Hour Health and Safety Training for Hazardous Waste Operations and Yearly 8-Hour Refresher Course

PROFESSIONAL EXPERIENCE:

Mrs. Lee has more than twenty-four years' experience in performing all aspects of Environmental Site Assessments, site characterizations, and remediation plans in conformance with ASTM Standards. Mrs. Lee has performed Phase I and Phase II Assessments on commercial, industrial, and residential properties throughout California. Her work includes conducting site reconnaissances, evaluating historical research, reviewing regulatory agency records and government databases, interpreting aerial photographs, sampling soil and groundwater, interpreting laboratory data, and preparing final reports that include recommendations for remediation. Mrs. Lee has authored numerous Closure Reports, Work Plans, and Health and Safety Plans for regulatory agency submittal.

Representative Experience:

- *Phase I Environmental Site Assessments*. As an Environmental Professional, Mrs. Lee specializes in performing Phase I ESAs in conformance with ASTM Standard E 1527-13. Phase I ESAs are conducted to identify recognized environmental conditions in connection with a property. The term "recognized environmental conditions" means the presence or likely presence of any hazardous substances or petroleum products in, on, or

at a property: (1) due to any 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.

- *Environmental Audits*. Mrs. Lee has conducted Site Closure Environmental Audits for properties in southern California. Services performed include an initial site reconnaissance to identify areas of potential environmental concern; soil and groundwater sampling and analysis; and preparation of a Site Closure Environmental Audit report.

- *Phase II Environmental Site Assessments*. Mrs. Lee has conducted numerous Phase II ESAs on properties located throughout the state of California. Phase II studies have been performed to determine the presence or absence of soil and groundwater contamination at a property after a recognized environmental condition has been identified during the course of a Phase I ESA. Mrs. Lee has experience identifying and defining petroleum hydrocarbon, solvents, agricultural chemicals, and metals-based contamination plumes in both the soil and groundwater.

- *Soil Remediation*. Following the identification and delineation of contamination plumes, Mrs. Lee has coordinated and overseen soil remediation activities including remediation by excavation and in-situ bio-remediation.

- *Regulatory Agency Case Closure*. Mrs. Lee has authored several Closure Reports for regulatory agency submittal following successful remediation of contaminated properties. Mrs. Lee also authors Closure Reports for underground storage tank removal activities.

Appendix E

Noise Data

Noise Appendix – Field Data Sheets

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: HYATT HOUSE VACAVILLE — PROJECT #: 11777
SITE ID: ST1
SITE ADDRESS: E. MONTE VISTA AVE. — OBSERVER(S): JVL
START DATE: 3/21/19 — END DATE: 3/21/19
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 63 F — HUMIDITY: 70 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 2 MPH — DIR. N NE S (SE) S SW W NW — VARIABLE (STEADY) GUSTY
SKY: SUNNY CLEAR (OVRCAST) PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: NL-32 — TYPE (1) 2 — SERIAL # 01030561
CALIBRATOR: NC-74 — SERIAL # 3461857L6
CALIBRATION CHECK — PRE-MEASUREMENT: 94 dBA SPL — POST-MEASUREMENT: 94 dBA SPL — WINDSCRN: X

SETTINGS: (A-WTD) (SLOW) FAST (FRONTAL) RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1	12:20	12:40	66.6	82.4	50.7	53.1	58.9	71.3	

COMMENTS: NORTH EDGE OF MINI-STORAGE FACILITY ON EAST SIDE OF E. MONTE VISTA

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ARTERIAL — DIST. TO RDWY C/L OR (EOP): 40 FEET
TRAFFIC COUNT DURATION: 20 MIN — SPEED 45

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	76			
MED TRKS	1			
HVY TRKS	1			
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE

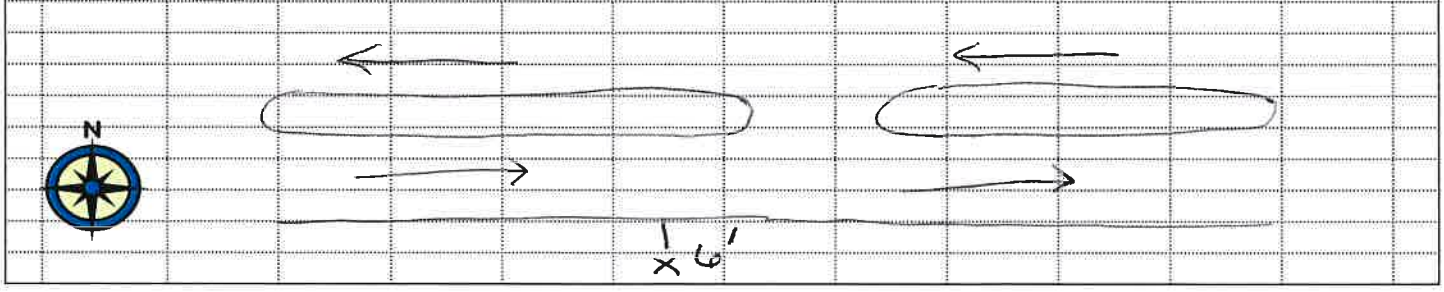
COUNT 2 (OR RDWY 2)	MIN NB/EB	MIN SB/WB	SPEED NB/EB	SPEED SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: 2 LIGHT PLANE OVERFLIGHTS

DESCRIPTION / SKETCH

TERRAIN (HARD) SOFT MIXED FLAT OTHER:
PHOTOS
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: HYATT HOUSE VACAVILLE — PROJECT #: 11777
SITE ID: ST2
SITE ADDRESS: VACA VALLEY PARKWAY — OBSERVER(S): JVL
START DATE: 3/21/19 — END DATE: 3/21/19
START TIME — END TIME

METEOROLOGICAL CONDITIONS

TEMP: 63 F — HUMIDITY: 70 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 2 MPH — DIR. N NE S (SE) S SW W NW — VARIABLE (STEADY) GUSTY
SKY: SUNNY CLEAR (OVRCAST) PRTLY CLDY FOG — RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: NL-32 — TYPE (1) 2 — SERIAL # 01030561
CALIBRATOR: NC-74 — SERIAL # 34678576
CALIBRATION CHECK — PRE-MEASUREMENT: 94 dBA SPL — POST-MEASUREMENT: 94 dBA SPL — WINDSCRN: X

SETTINGS: (A-WTD) (SLOW) FAST (FRONTAL) RANDOM ANSI — OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1	12:00	12:10	64.8	70.7	47.8	34.2	64.0	68.3	

COMMENTS: FRONT EDGE OF SIDEWALK NEXT TO DRAINAGE DITCH, EVEN WITH WEST EDGE OF WATER AGENCY PARKING LOT.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ARTERIAL — DIST. TO RDWY C/L OR (EOP): 74 FEET
TRAFFIC COUNT DURATION: 10 MIN — SPEED: 45 — ___ MIN — SPEED

COUNT 1 (OR RDWY 1)	DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
	AUTOS	136			
	MED TRKS	5			
	HVY TRKS	7			
	BUSES				
	MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ___

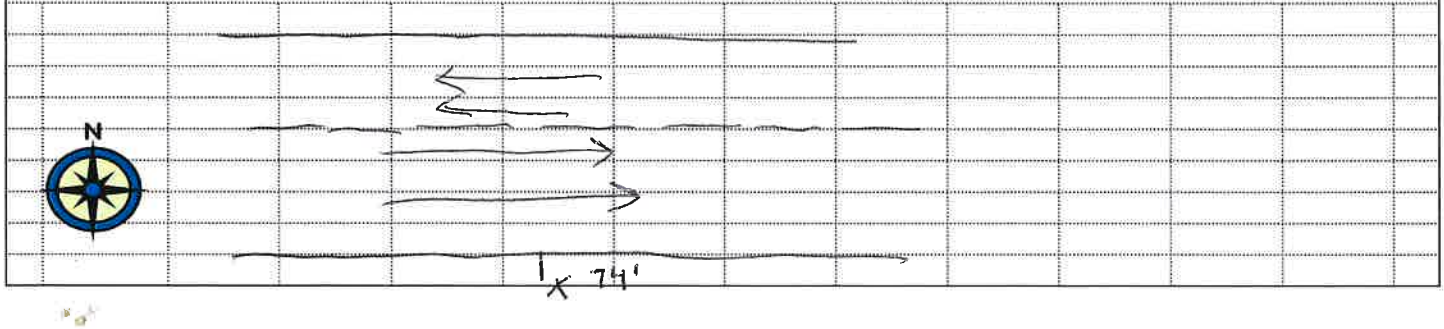
COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH

TERRAIN HARD SOFT (MIXED) FLAT OTHER:
PHOTOS
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: HYATT HOUSE VACAVILLE — PROJECT #: 11777
SITE ID: ST3
SITE ADDRESS: ~~VACA~~ AVIATOR DRIVE — OBSERVER(S): JVL
START DATE: 3/21/19 — END DATE: 3/21/19
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 63 F — HUMIDITY: 70 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 2 MPH — DIR. N NE S (SE) S SW W NW — VARIABLE (STEADY) GUSTY
SKY: SUNNY CLEAR (OVRCAST) PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: NL-32 — TYPE (1) 2 — SERIAL # 01030561
CALIBRATOR: NC-74 — SERIAL # 3467857G
CALIBRATION CHECK — PRE-MEASUREMENT: 94 dBA SPL — POST-MEASUREMENT: 94 dBA SPL — WINDSCRN: X

SETTINGS: (A-WTD) (SLOW) FAST (FRONTAL) RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1	11:20	11:40	66.7	82.3	43.5	45.9	52.9	70.9	

COMMENTS:

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: COLLECTOR — DIST. TO RDWY C/L OR (EOP): 5FEET
TRAFFIC COUNT DURATION: ___ MIN — SPEED: 40 — ___ MIN — SPEED

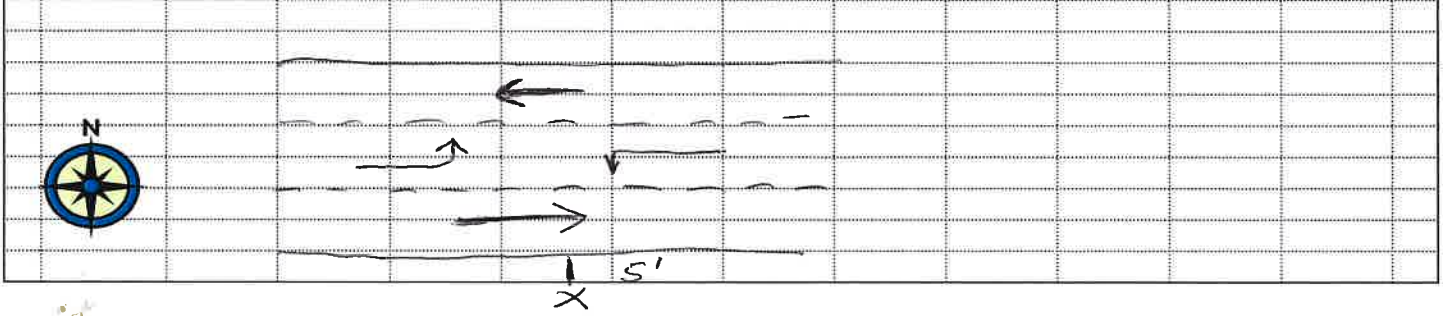
COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	55									
MED TRKS	2									
HVY TRKS	3									
BUSES										
MOTRCLS										

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH

TERRAIN HARD SOFT MIXED FLAT OTHER:
PHOTOS
OTHER COMMENTS / SKETCH



Noise Appendix – RCNM Inputs/Outputs

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/28/2019
Case Description: Hyatt House - Site Preparation

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single Family Residences	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	2435	0
Dozer	No	40		81.7	2435	0
Dozer	No	40		81.7	2435	0
Backhoe	No	40		77.6	2435	0
Backhoe	No	40		77.6	2435	0
Backhoe	No	40		77.6	2435	0
Backhoe	No	40		77.6	2435	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Dozer		47.9	43.9
Dozer		47.9	43.9
Dozer		47.9	43.9
Backhoe		43.8	39.8
Backhoe		43.8	39.8
Backhoe		43.8	39.8
Backhoe		43.8	39.8
	Total	47.9	50.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/28/2019
Case Description: Hyatt House - Grading

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single Family Residences	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	2435	0
Grader	No	40	85		2435	0
Excavator	No	40		80.7	2435	0
Backhoe	No	40		77.6	2435	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Dozer		47.9	43.9
Grader		51.2	47.3
Excavator		47	43
Backhoe		43.8	39.8
	Total	51.2	50.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/28/2019
Case Description: Hyatt House - Building Construction

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single Family Residences	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	2435	0
Backhoe	No	40		77.6	2435	0
Backhoe	No	40		77.6	2435	0
Crane	No	16		80.6	2435	0
Gradall	No	40		83.4	2435	0
Gradall	No	40		83.4	2435	0
Gradall	No	40		83.4	2435	0
Generator	No	50		80.6	2435	0
Welder / Torch	No	40		74	2435	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Backhoe		43.8	39.8
Backhoe		43.8	39.8
Backhoe		43.8	39.8
Crane		46.8	38.8
Gradall		49.6	45.7
Gradall		49.6	45.7
Gradall		49.6	45.7
Generator		46.9	43.9
Welder / Torch		40.2	36.3
	Total	49.6	52.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/28/2019
Case Description: Hyatt House - Paving

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single Family Residences	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	2435	0
Concrete Mixer Truck	No	40		78.8	2435	0
Paver	No	50		77.2	2435	0
Dump Truck	No	40		76.5	2435	0
Dump Truck	No	40		76.5	2435	0
Roller	No	20		80	2435	0
Roller	No	20		80	2435	0
Backhoe	No	40		77.6	2435	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Concrete Mixer Truck		45	41.1
Concrete Mixer Truck		45	41.1
Paver		43.5	40.5
Dump Truck		42.7	38.7
Dump Truck		42.7	38.7
Roller		46.2	39.3
Roller		46.2	39.3
Backhoe		43.8	39.8
	Total	46.2	48.9

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/28/2019
Case Description: Hyatt House - Architecture Coating

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Single Family Residences	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	2435	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Compressor (air)		43.9	39.9
	Total	43.9	39.9

*Calculated Lmax is the Loudest value.

Noise Appendix – Traffic Noise Worksheets

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST1 (East Monte Vista, South of Vaca Valley Parkway)	DATE:	3/27/2019
Scenario:	**Calibration**	BY:	J. Leech

ADT	2,340			PK HR VOL	234
SPEED	45				
PK HR %	10				
DIST CTL	25				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		18.1
DIST WALL	0		MED TRUCK SLE DIST		17.6
DIST W/OB	25		HVY TRUCK SLE DIST		17.6
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				
SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	64.6	62.7	60.9	54.9	64.1
MEDIUM TRUCKS	58.9	57.6	51.2	48.1	57.6
HEAVY TRUCKS	60.7	59.4	50.5	50.2	59.4
VEHICULAR NOISE	**66.9**	65.2	61.7	56.8	66.0

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST1 (East Monte Vista, South of Vaca Valley Parkway)	DATE:	3/27/2019
Scenario:	**Existing**	BY:	J. Leech

ADT	4,520			PK HR VOL	452
SPEED	45				
PK HR %	10				
DIST CTL	25				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		18.1
DIST WALL	0		MED TRUCK SLE DIST		17.6
DIST W/OB	25		HVY TRUCK SLE DIST		17.6
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	67.5	65.5	63.7	57.8	67.0
MEDIUM TRUCKS	61.8	60.4	54.0	51.0	60.5
HEAVY TRUCKS	63.6	62.3	53.3	53.1	62.3
VEHICULAR NOISE	**69.7**	68.0	64.5	59.7	68.9

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST1 (East Monte Vista, South of Vaca Valley Parkway)	DATE:	3/27/2019
Scenario:	**Existing + Project**	BY:	J. Leech

ADT	5,260			PK HR VOL	526
SPEED	45				
PK HR %	10				
DIST CTL	25				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		18.1
DIST WALL	0		MED TRUCK SLE DIST		17.6
DIST W/OB	25		HVY TRUCK SLE DIST		17.6
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	68.1	66.2	64.4	58.4	67.6
MEDIUM TRUCKS	62.4	61.1	54.7	51.7	61.2
HEAVY TRUCKS	64.2	62.9	54.0	53.7	62.9
VEHICULAR NOISE	**70.4**	68.7	65.2	60.3	69.6

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST1 (East Monte Vista, South of Vaca Valley Parkway)	DATE:	3/27/2019
Scenario:	**Future Probable**	BY:	J. Leech

ADT	5,180			PK HR VOL	518
SPEED	45				
PK HR %	10				
DIST CTL	25				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		18.1
DIST WALL	0		MED TRUCK SLE DIST		17.6
DIST W/OB	25		HVY TRUCK SLE DIST		17.6
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	68.1	66.1	64.3	58.3	67.6
MEDIUM TRUCKS	62.4	61.0	54.6	51.6	61.1
HEAVY TRUCKS	64.2	62.9	53.9	53.7	62.9
VEHICULAR NOISE	**70.3**	68.6	65.1	60.3	69.5

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST1 (East Monte Vista, South of Vaca Valley Parkway)	DATE:	3/27/2019
Scenario:	**Future Probable + Project**	BY:	J. Leech

ADT	5,930			PK HR VOL	593
SPEED	45				
PK HR %	10				
DIST CTL	25				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		18.1
DIST WALL	0		MED TRUCK SLE DIST		17.6
DIST W/OB	25		HVY TRUCK SLE DIST		17.6
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	68.7	66.7	64.9	58.9	68.1
MEDIUM TRUCKS	63.0	61.6	55.2	52.2	61.7
HEAVY TRUCKS	64.7	63.4	54.5	54.3	63.5
VEHICULAR NOISE	**70.9**	69.2	65.7	60.8	70.1

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST2 (Vaca Valley Parkway, West of Monte Vista)	DATE:	3/27/2019
Scenario:	**Calibration**	BY:	J. Leech

ADT	8,880			PK HR VOL	888
SPEED	45				
PK HR %	10				
DIST CTL	85				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		76.2
DIST WALL	0		MED TRUCK SLE DIST		76.1
DIST W/OB	85		HVY TRUCK SLE DIST		76.1
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.0	59.1	57.3	51.3	60.5
MEDIUM TRUCKS	55.2	53.8	47.4	44.4	53.9
HEAVY TRUCKS	57.0	55.7	46.7	46.5	55.7
VEHICULAR NOISE	**63.2**	61.5	58.1	53.2	62.4

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST2 (Vaca Valley Parkway, West of Monte Vista)	DATE:	3/27/2019
Scenario:	**Existing**	BY:	J. Leech

ADT	10,230			PK HR VOL	1,023
SPEED	45				
PK HR %	10				
DIST CTL	85				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		76.2
DIST WALL	0		MED TRUCK SLE DIST		76.1
DIST W/OB	85		HVY TRUCK SLE DIST		76.1
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.6	59.7	57.9	51.9	61.1
MEDIUM TRUCKS	55.8	54.4	48.0	45.0	54.5
HEAVY TRUCKS	57.6	56.3	47.3	47.1	56.3
VEHICULAR NOISE	**63.8**	62.1	58.7	53.8	63.0

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST2 (Vaca Valley Parkway, West of Monte Vista)	DATE:	3/27/2019
Scenario:	**Existing + Project**	BY:	J. Leech

ADT	10,530			PK HR VOL	1,053
SPEED	45				
PK HR %	10				
DIST CTL	85				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		76.2
DIST WALL	0		MED TRUCK SLE DIST		76.1
DIST W/OB	85		HVY TRUCK SLE DIST		76.1
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.8	59.8	58.0	52.0	61.3
MEDIUM TRUCKS	55.9	54.5	48.2	45.1	54.6
HEAVY TRUCKS	57.7	56.4	47.5	47.2	56.4
VEHICULAR NOISE	**63.9**	62.3	58.8	53.9	63.1

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST2 (Vaca Valley Parkway, West of Monte Vista)	DATE:	3/27/2019
Scenario:	**Future Probable**	BY:	J. Leech

ADT	10,250			PK HR VOL	1,025
SPEED	45				
PK HR %	10				
DIST CTL	85				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		76.2
DIST WALL	0		MED TRUCK SLE DIST		76.1
DIST W/OB	85		HVY TRUCK SLE DIST		76.1
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.6	59.7	57.9	51.9	61.1
MEDIUM TRUCKS	55.8	54.4	48.1	45.0	54.5
HEAVY TRUCKS	57.6	56.3	47.3	47.1	56.3
VEHICULAR NOISE	**63.8**	62.1	58.7	53.8	63.0

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Hyatt House Vacaville	JN:	8817-0009
ROADWAY:	ST2 (Vaca Valley Parkway, West of Monte Vista)	DATE:	3/27/2019
Scenario:	**Future Probable + Project**	BY:	J. Leech

ADT	10,540			PK HR VOL	1,054
SPEED	45				
PK HR %	10				
DIST CTL	85				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		76.2
DIST WALL	0		MED TRUCK SLE DIST		76.1
DIST W/OB	85		HVY TRUCK SLE DIST		76.1
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.8	59.8	58.0	52.1	61.3
MEDIUM TRUCKS	55.9	54.5	48.2	45.1	54.6
HEAVY TRUCKS	57.7	56.4	47.5	47.2	56.4
VEHICULAR NOISE	**63.9**	62.3	58.8	53.9	63.1

Appendix F

Transportation Impact Study

FEHR PEERS

TECHNICAL MEMORANDUM

Date: March 7, 2019

To: Gwen Owens – City of Vacaville

From: Elizabeth Connell and David B. Robinson – Fehr & Peers

Subject: Vaca Valley Hotel Transportation Impact Study

RS19-3740

Introduction

The proposed project includes the following land uses:

1. Extended stay hotel
2. Two restaurants
3. Retail/Office building

The site will have right-in / right-out access on Vaca Valley Parkway and full access on E Monte Vista Avenue. Both driveways will be side-street-stop controlled.

The project will be located in the City of Vacaville on the southwest corner of Vaca Valley Parkway and E Monte Vista Avenue. **Figure 1** shows the proposed site plan, and **Figure 2** displays the location of the project site in the study area.

Study Intersections

The following study intersections were selected by coordinating with the City of Vacaville:

1. Vaca Valley Parkway / E Monte Vista Avenue
2. Vaca Valley Parkway / I-505 SB Ramps
3. Vaca Valley Parkway / I-505 NB Ramps

Study Scenarios

This analysis studies the following scenarios:

1. Existing Conditions
2. Existing with Project Conditions
3. Existing + Probable/Possible Conditions (E+PP)
4. Existing + Probable/Possible + Project Conditions (E+PP+P)

A roundabout is expected to be constructed at the intersection of Vaca Valley Parkway / E Monte Vista Avenue. In addition to the above scenarios, queuing at the proposed roundabout was analyzed, using E+PP+P volumes, to determine if vehicle queues would interfere with the project driveway, which is located 210 feet west of E Monte Vista Avenue.

Methodology

This study analyzes traffic conditions at the study intersections using Level of Service (LOS) and vehicle queuing as the primary measures of operational performance. LOS is a qualitative measure of traffic flow from the perspective of motorists and is an indication of the comfort associated with driving. Typical factors that affect LOS include speed, travel time, and traffic interruptions. Empirical LOS criteria and methods of calculation have been documented in the *Highway Capacity Manual* (6th Edition) published by the Transportation Research Board. LOS is a letter classification system, from A (representing free-flow traffic conditions) to F (oversaturated conditions where traffic demand exceeds capacity, resulting in long queues and delays). The LOS and average delay are reported for the overall intersection.

These methodologies were applied to the AM and PM peak hour scenarios using the Synchro 10 software, which considers traffic volumes, lane configurations, signal timings, and other parameters.

The City of Vacaville General Plan requires intersections to meet the following criteria:

- Signalized – mid-D (45 seconds of delay)
- All-way stop control – mid-D (30 seconds of delay)
- Two-way stop control – D (35 seconds of delay)

Significance Criteria

According to City of Vacaville Traffic Impact Guidelines, the project will be considered to have a significant impact it does one of the following

1. Causes an acceptably operating intersection to operate unacceptably
2. Increases average delay by more than five seconds at an already unacceptably operating intersection

Existing Conditions

Regional Roadway Network

The project is less than ¼ mile west of I-505, a freeway that connects I-80 in Vacaville to I-5 in Dunnigan. Within the study area, I-505 has four travel lanes.

Transit

There are no transit stops within a ¼ mile of the site.

Local Roadway Network

Vaca Valley Parkway is an east-west roadway that varies between two and four travel lanes within the study area. The speed limit is 40 mph. There is a patchwork of sidewalks along the roadway and no bicycle lanes. There are pedestrian crosswalks on the north, south, and west legs of Vaca Valley Parkway / E Monte Vista Avenue. The project frontage will include sidewalks along Vaca Valley Parkway.

Crocker Drive is a north-south roadway with three travel lanes. It has a speed limit of 40 mph and runs parallel to I-505. Within the study area, there are consistent sidewalks along the west side of the roadway. The east side of the facility has sidewalks only on certain portions. However, I-505 is directly east of Crocker Drive, so foot traffic would likely be low even if pedestrian facilities were provided.

E Monte Vista Ave is a two-lane, north-south roadway within the study area. It has a speed limit of 45 mph and runs parallel to I-505. There are few sidewalks on either side of this facility and the are no bike lanes. The project frontage will include a sidewalk along E Monte Vista Avenue.

Traffic Counts

Three-day mid-week traffic counts were provided by the City at three intersections – Vaca Valley Parkway at E Monte Vista Avenue, Vaca Valley Parkway at I-505 SB Ramps, and Vaca Valley Parkway at I-505 NB Ramps. The counts were taken October 16th-18th, 2018, during the morning (6:30 to 9:30 AM) and evening (3:00 to 6:00 PM) peak periods.

Figure 3 shows the peak hour intersection turning movements and lane configurations at the study intersections.

Existing Intersection Operations

Table 1 displays the existing average delay and level of service (LOS) at the study intersections. Technical calculations are available in Attachment A.

Table 1: Existing Intersection Level of Service

Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
		Delay[1]	LOS	Delay[1]	LOS
1. Vaca Valley Pkwy / E Monte Vista Ave	Signal	21	C	37	D
2. Vaca Valley Pkwy / I-505 SB Ramps	SSSC[2]	7	A	7	A
3. Vaca Valley Pkwy / I-505 NB Ramps	Signal	16	B	13	B

Notes:

1. Average delay in seconds per vehicle calculated based on methodologies contained in the *Highway Capacity Manual* (HCM) *6th Edition*.
2. "SSSC" represents side-street stop-control.

Source: Fehr & Peers, 2019

Existing Plus Project Conditions

Trip Generation

The project's expected trip generation was based on the Institute of Transportation Engineers' (ITE) *Trip Generation Manual* (2017). **Table 2** displays the weekday AM and PM peak hour trip generation of the proposed project. Land uses were determined by coordinating with the City. Pass-by trips and internal trips (described below) were also considered.

Pass-by Trips

Pass-by trips represent drivers already travelling on the street adjacent to the project that decide to patronize the project site. Therefore, pass-by trips are not generated by the project but are existing vehicles attracted to the project site. The rates were calculated for each land use from the *Trip Generation Handbook, 3rd Edition*. Because daily pass-by rates are not available in the *Trip Generation Handbook*, the PM peak hour pass-by rates were applied as daily estimates.

Internal Trips

It is expected that some of the gross trips would remain internal within the project boundary between the complementary mix of land uses. The internalization of project trips was estimated using the Mixed-Use Trip Generation Model (MXD+), which was developed for the US Environmental Protection Agency (EPA) to estimate internal trip-making and external trips by non-auto travel modes. This model was developed by consultants and academic researchers based on empirical evidence at 240 mixed-use projects located across the U.S. The model considers various built environment variables such as land use density, regional location, proximity to transit, and

various design variables when calculating the project's internal trips. The MXD+ model has been applied in numerous EIRs throughout California.

As shown, the project is expected to generate 114 total trips entering/exiting the project driveway during the AM peak hour and 121 trips entering/exiting the project driveway during the PM peak hour.

Table 2: Project Trip Generation

Land Use	ITE Code	Quantity	Units	Daily	AM Peak Hour			PM Peak Hour		
				Total	Total	In	Out	Total	In	Out
All Suites Hotel	311	144	Rooms	**642**	**49**	26	23	**52**	25	27
Fast Food w/ Drive Thru	934	2600	ksf GFA[1]	**1,224**	**104**	53	51	**85**	44	41
High Turn-Over Restaurant	932	2000	ksf GFA	**224**	**20**	10	10	**20**	12	8
Shopping Center	820	8000	ksf GFA	**302**	**8**	5	3	**30**	14	16
Gross Trip Total				**2,392**	**181**	94	87	**187**	95	92
Pass-by Percentages										
Fast Food w/ Drive Thru			50%	**-612**	49%	-26	-25	50%	-22	-20
High Turn-Over Restaurant			37%	**-83**	N/A	0	0	37%	-4	-3
Internalization										
			8.5%	**-203**	8.5%	-8	-7	8.5%	-8	-8
Total				**1,496**	**114**	60	55	**121**	61	60

Notes:
1. ksf GFA = 1000 square feet of gross floor area

Source: Fehr & Peers, 2019

Trip Distribution

The site will have full access on E Monte Vista Avenue and right-in / right-out access on Vaca Valley Parkway. This restriction was considered when assigning trips. **Table 3** shows the trip distribution percentages used in the analysis. Percentages are based on existing volumes.

Table 3: Project Trip Distribution

External Origin/Destination	Percentage
Vaca Valley Parkway To/From the East	29%
I-505 To/From the North	7%
Crocker Drive To/From the North	13%
Vaca Valley Parkway To/From the West	21%
E Monte Vista Avenues To/From the South	8%
I-505 To/From the South	22%

Source: Fehr & Peers, 2019

Existing Plus Project Intersection Operations

Table 4 shows the results for Existing Plus Project Conditions. All study intersections continue to operate acceptably with the addition of the project. **Figure 4** presents the Existing Plus Project AM and PM peak hour volumes at each study intersection. Technical calculations are in Attachment A.

Table 4: Existing Plus Project Intersection Level of Service

Intersection	Traffic Control	Existing Conditions				Existing Plus Project Conditions			
		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
		Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS
1. Vaca Valley Pkwy / E Monte Vista Ave	Signal	21	C	37	D	24	C	37	D
2. Vaca Valley Pkwy / I-505 SB Ramps	SSSC[2]	7	A	7	A	7	A	8	A
3. Vaca Valley Pkwy / I-505 NB Ramps	Signal	16	B	13	B	16	B	13	B

Notes:

1. Average delay in seconds per vehicle calculated based on methodologies contained in the *Highway Capacity Manual* (HCM) *6th Edition*.
2. "SSSC" represents side-street stop-control.

Source: Fehr & Peers, 2019

Probable/Possible Projects Conditions

Probable/Possible Projects

Table 5 below shows the land use and trip generation for the probable/possible projects analyzed in this study. These projects and their land use information were provided by the City. **Figure 5** presents the E+PP AM and PM peak hour volumes at each study intersection. Technical calculations are in the Attachment A.

Table 5: Probable/Possible Projects Trip Generation

Project	Land Use	ITE Code	Quantity (ksf)	Daily	AM Peak Hour			PM Peak Hour		
				Total	Total	In	Out	Total	In	Out
250 Crocker	Warehouse	150	39.2	68	7	5	2	7	2	5
Eubanks	Warehouse	150	263.4	458	45	35	10	50	14	36
Cessna & Aviator	Warehouse	150	214.3	373	36	28	8	41	11	30
Icon	Warehouse	150	252.2	439	43	33	10	48	13	35
700 Crocker	Industrial Park	130	744.7	2,510	298	241	57	298	63	235
Total				**3,848**	**429**	342	87	**444**	103	341

Source: Fehr& Peers, 2019

Probable/Possible Projects Intersection Operations

Probable/Possible trips were distributed using the previously described percentages. The location of the projects in relation to the study intersections was also considered. **Table 6** provides the results for the E+PP conditions. Most intersections continue to operate acceptably under these conditions except for Vaca Valley Parkway / E Monte Vista Avenue. During the PM peak hour, overall intersection delay exceeds the acceptable mid-D (45 seconds) criteria.

Table 6 Existing Plus Probable/Possible Projects Intersection Level of Service

Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
		Delay[1]	LOS	Delay[1]	LOS
1. Vaca Valley Pkwy / E Monte Vista Ave	Signal	24	C	**46[2]**	**D**
2. Vaca Valley Pkwy / I-505 SB Ramps	SSSC[3]	8	A	8	A
3. Vaca Valley Pkwy / I-505 NB Ramps	Signal	17	B	13	B

Notes:
1. Average delay in seconds per vehicle calculated based on methodologies contained in the *Highway Capacity Manual* (HCM) *6th Edition*.
2. **Bold** and shaded values indicate unacceptable operations.
3. "SSSC" represents side-street stop-control.

Source: Fehr & Peers, 2019

Existing Plus Probable/Possible Projects Plus Project Conditions

The project trips were added to the probable possible and existing trips under E+PP+P conditions. **Figure 6** displays the E+PP+P AM and PM peak hour volumes at each study intersection. **Table 7** provides the results for the E+PP+P conditions.

The addition of project traffic to the Vaca Valley Parkway / E Monte Vista Avenue intersection would increase delay by more than five seconds, which would already operate unacceptably with the addition of traffic from probable possible development This is considered a significant impact.

Table 7: Existing Plus Probable/Possible Projects Plus Project Intersection Level of Service

Intersection	Traffic Control	Existing Plus P/P				Existing Plus P/P Plus Project			
		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
		Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS
1. Vaca Valley Pkwy / E Monte Vista Ave	Signal	24	C	46	D	26	C	**54[2]**	**D**
2. Vaca Valley Pkwy / I-505 SB Ramps	SSSC[3]	8	A	8	A	9	A	10	B
3. Vaca Valley Pkwy / I-505 NB Ramps	Signal	17	B	13	B	18	B	14	B

Notes:
1. Average delay in seconds per vehicle calculated based on methodologies contained in the *Highway Capacity Manual* (HCM) *6th Edition*.
2. **Bold** and shaded values indicate unacceptable operations.
3. "SSSC" represents side-street stop-control.

Source: Fehr & Peers, 2019

Roundabout Queueing

Queues at the proposed roundabout were analyzed using E+PP+P volumes. The roundabout was analyzed using the Sidra software. As shown in **Table 8**, queues in both the AM and PM peak hours are not expected to exceed 75 feet (3 vehicles). It is not expected that queues from the roundabout will conflict with the project driveway.

Table 8: Roundabout Queues

Location	Available Storage[1]	Queue[2]	
		AM	PM
Vaca Valley Parkway / E Monte Vista Avenue	210 feet	75 feet	60 feet

Notes:
1. Storage is measured from the eastbound stop bar to the project driveway
2. One vehicle is approximately equivalent to a queue of 25 ft

Source: Fehr & Peers, 2019

On-Site Circulation

This section evaluates the site access and on-site circulation of the site by a refuse truck and an SUV. AutoTURN drawings are in the appendix. Each of these vehicles is able to enter/exit the site and maneuver through the site without conflict. **Figure 7** and **Figure 8** show the paths of the vehicles as they maneuver through the site.

Refuge Truck

AutoTURN software was also utilized to evaluate the access and circulation of a refuse truck to the site. A trash enclosure is located in ton the north side of the hotel. A refuse truck is able to access the site from the E Monte vista Avenue driveway and pull into the enclosure. After it backs out, the truck exits the site from the Vaca Valley Parkway driveway.

Passenger Vehicle and Drive-Thru

A passenger vehicle is able to maneuver through the project drive-thru without breaching outside the drive-thru lane. Vehicles can safely turn left and right out of the drive-thru lane.

Findings and Recommendations

A significant impact was identified in the E+PP+P PM conditions. Under this scenario, the intersection of Vaca Valley Parkway / E Monte Vista Avenue increased the already unacceptable E+PP delay by more than 5 seconds.

The City is planning to upgrade the I-505 / Vaca Valley Parkway interchange that will include the addition of roundabout control at the Vaca Valley Parkway / E Monte Vista Avenue, Vaca Valley Parkway / I-505 SB Ramps, and Vaca Valley Parkway / I-505 NB Ramps intersections. With the interchange upgrade, Implementation of this project will result in acceptable (LOS mid-D or better) operation at the Vaca Valley Parkway / E Monte Vista Avenue intersection with the proposed project. Therefore, the payment of applicable traffic impact fees, which includes the planned interchange upgrade, would mitigate the project's impact at this intersection. **Table 9** provides the delay at the intersection under E+PP+P PM conditions after the roundabout has been constructed. As shown, the intersection is expected to operate at an acceptable LOS A.

Table 9: E+PP+P Roundabout Conditions

Intersection	Control Type	PM Peak Hour	
		Delay[1]	LOS
1. Vaca Valley Pkwy / E Monte Vista Ave	Roundabout	8	A

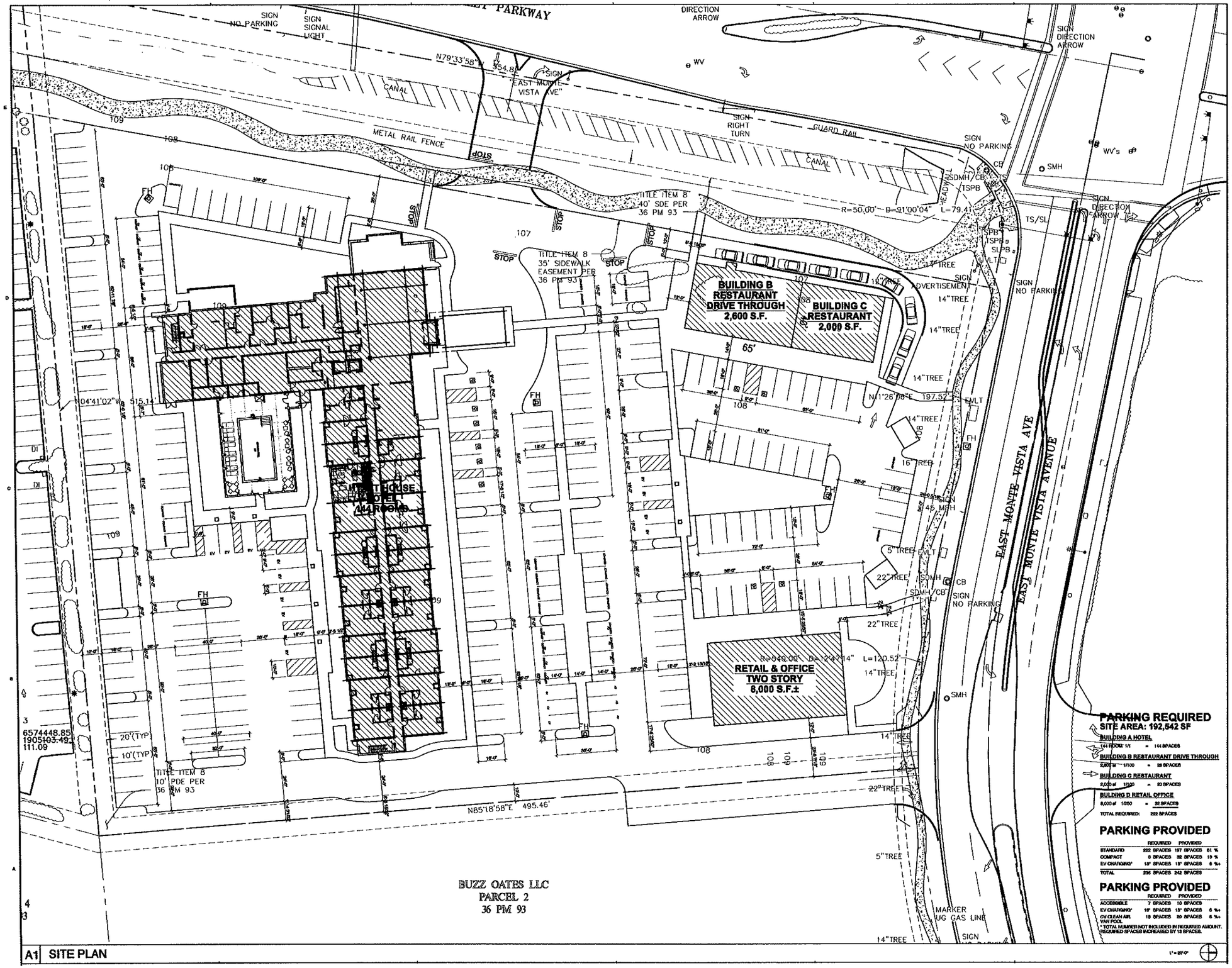
Notes:

1. Average delay in seconds per vehicle calculated based on methodologies contained in the *Highway Capacity Manual* (HCM) *6th Edition*.

Source: Fehr & Peers, 2019

Attachment A





PARKING REQUIRED
SITE AREA: 192,542 SF

BUILDING A HOTEL		
144 ROOMS 1/1	=	144 SPACES
BUILDING B RESTAURANT DRIVE THROUGH		
2,600 sf 1/100	=	26 SPACES
BUILDING C RESTAURANT		
2,009 sf 1/100	=	20 SPACES
BUILDING D RETAIL OFFICE		
8,000 sf 1/250	=	32 SPACES
TOTAL REQUIRED:		222 SPACES

PARKING PROVIDED

	REQUIRED	PROVIDED	
STANDARD	222 SPACES	197 SPACES	81 %
COMPACT	0 SPACES	32 SPACES	13 %
EV CHARGING*	13* SPACES	13* SPACES	5 %+
TOTAL	236 SPACES	242 SPACES	

PARKING PROVIDED

	REQUIRED	PROVIDED	
ACCESSIBLE	7 SPACES	10 SPACES	
EV CHARGING*	13* SPACES	13* SPACES	5 %+
CV CLEAN AIR VAN POOL	19 SPACES	20 SPACES	8 %+

* TOTAL NUMBER NOT INCLUDED IN REQUIRED AMOUNT. REQUIRED SPACES INCREASED BY 13 SPACES.

A1 SITE PLAN

1" = 20'-0"

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LICENSED ARCHITECT — Ms Cabbish — Rev. 12/31/19 — STATE OF CALIFORNIA

CONSULTANTS

APPROVALS

PROJECT

HYATT house PLAZA

VACA VALLEY PKWY. & E. MONTE VISTA

DESCRIPTION	DATE	ISSUE MARK
		1
		2
		3

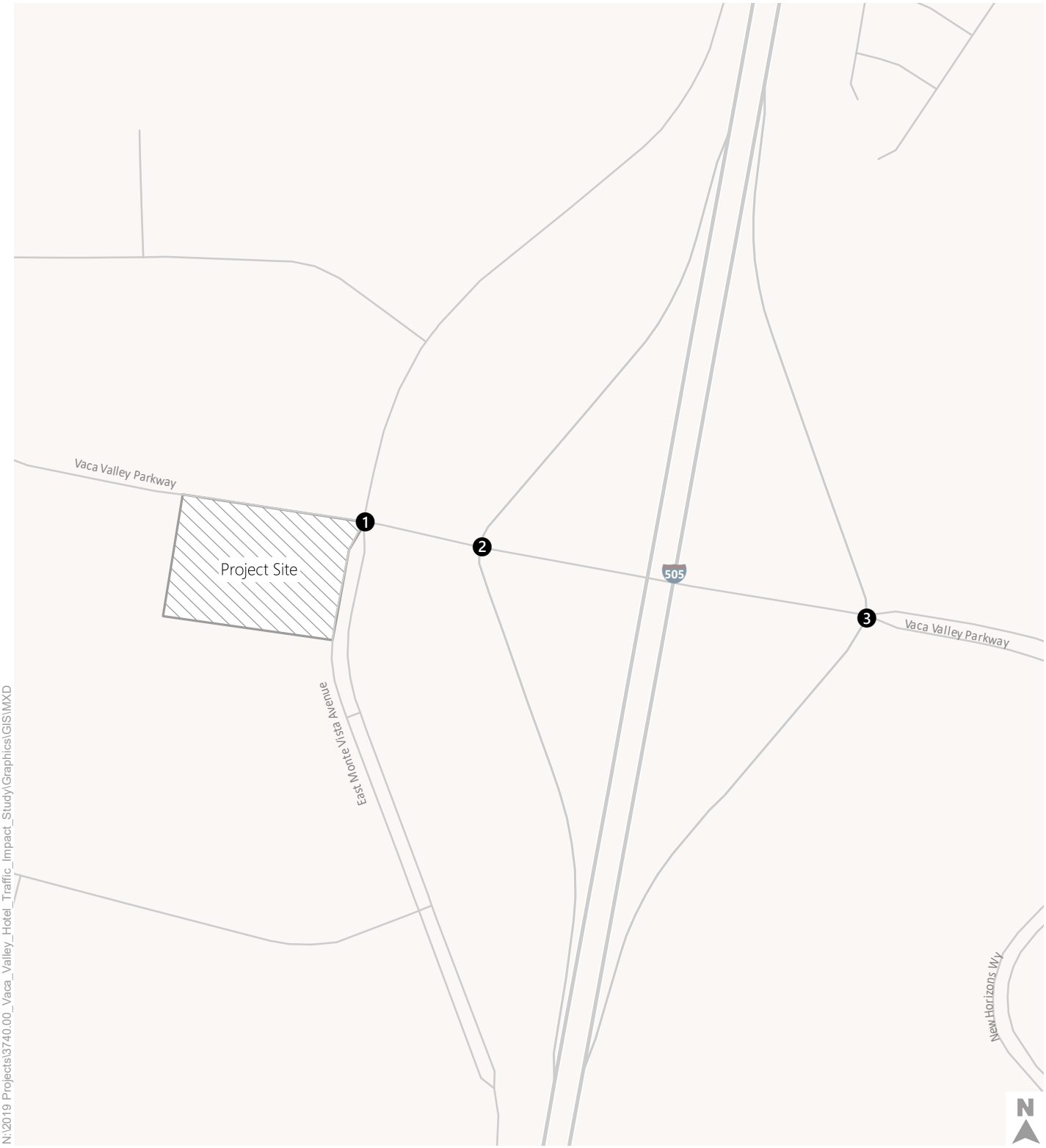
PROJECT NO:	18017
DATE:	07/03/18
DRAWING FILE:	
DRAWN BY:	L.J.K.
CHECKED BY:	R.R.S.

SHEET TITLE

OVERALL SITE PLAN

SHEET NO

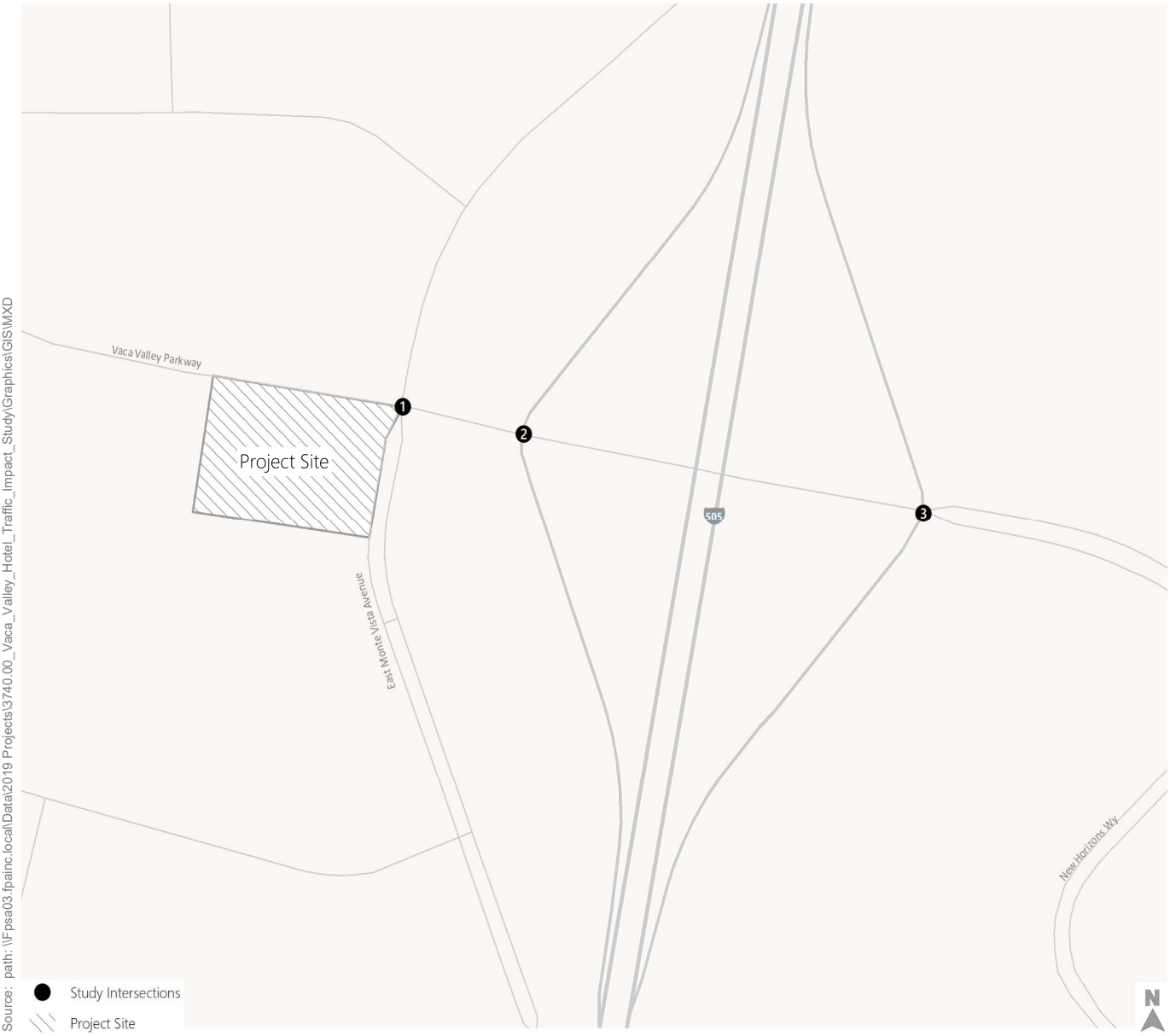
A100



● Study Intersections

Figure 2

Study Area



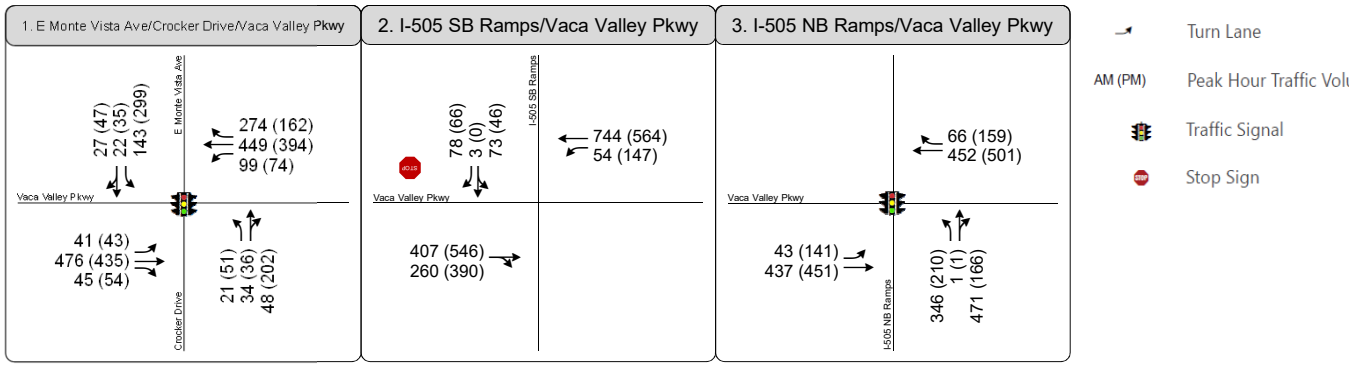


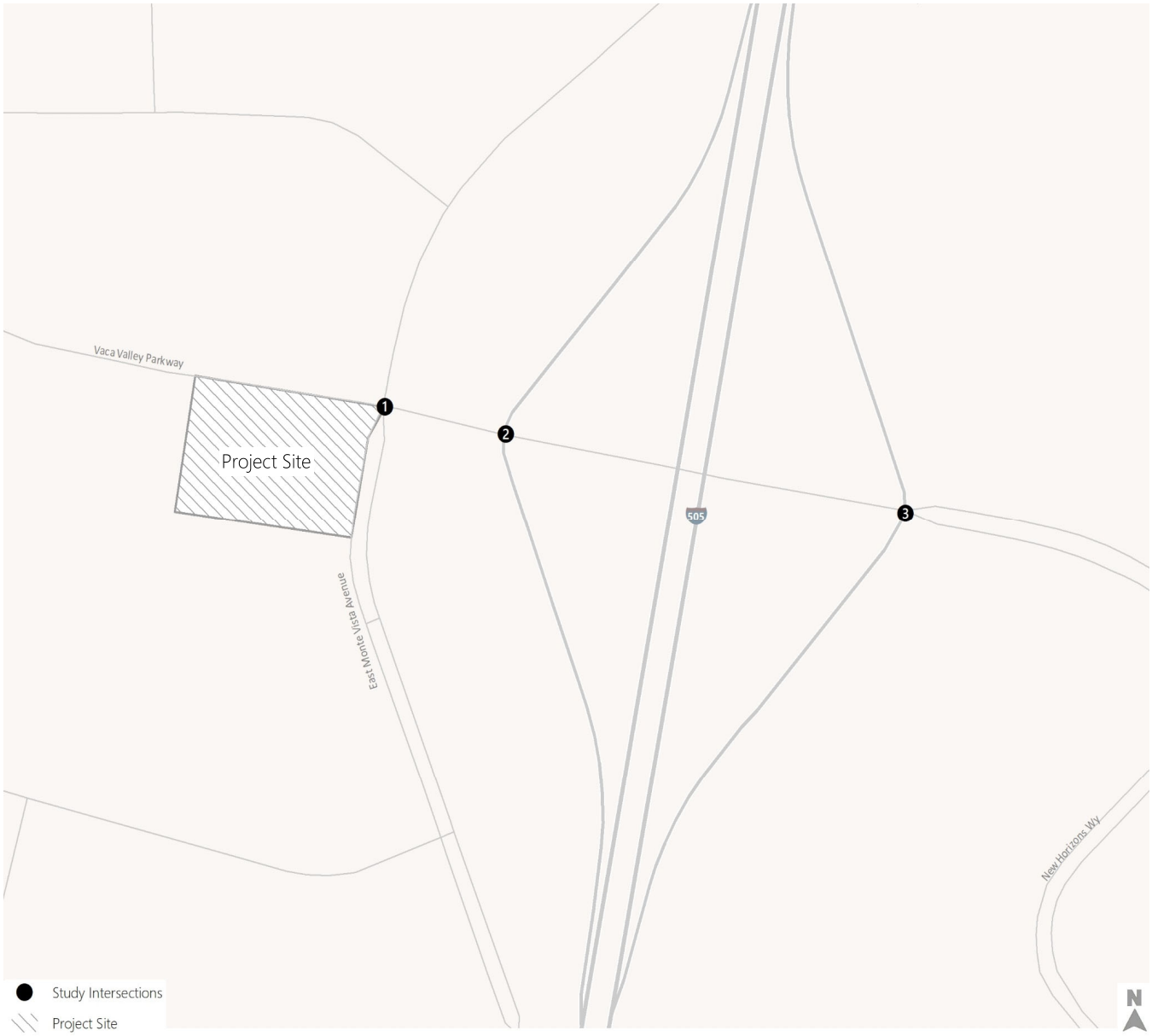
Figure 3

Peak Hour Traffic Volumes and Lane Configurations - Existing Conditions



Figure 4

Peak Hour Traffic Volumes and Lane Configurations - Existing Plus Project Conditions



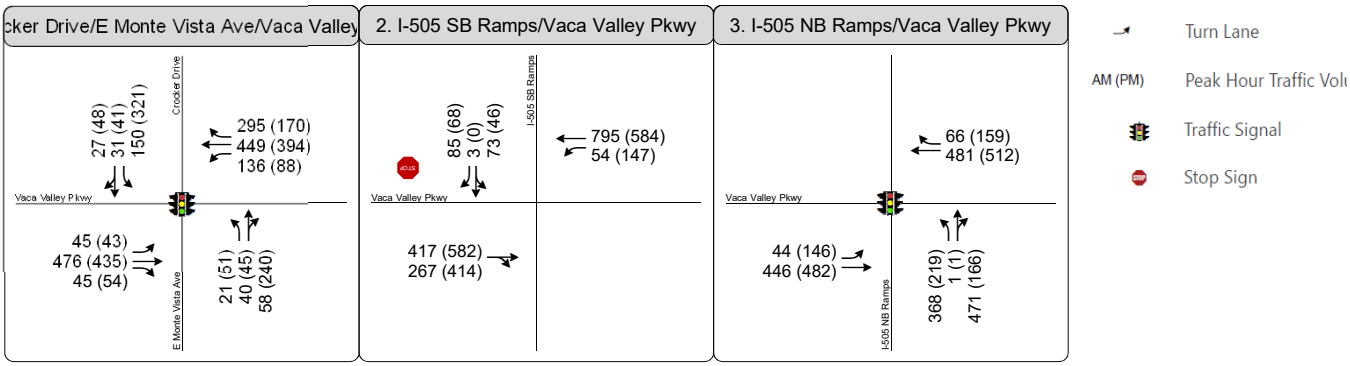
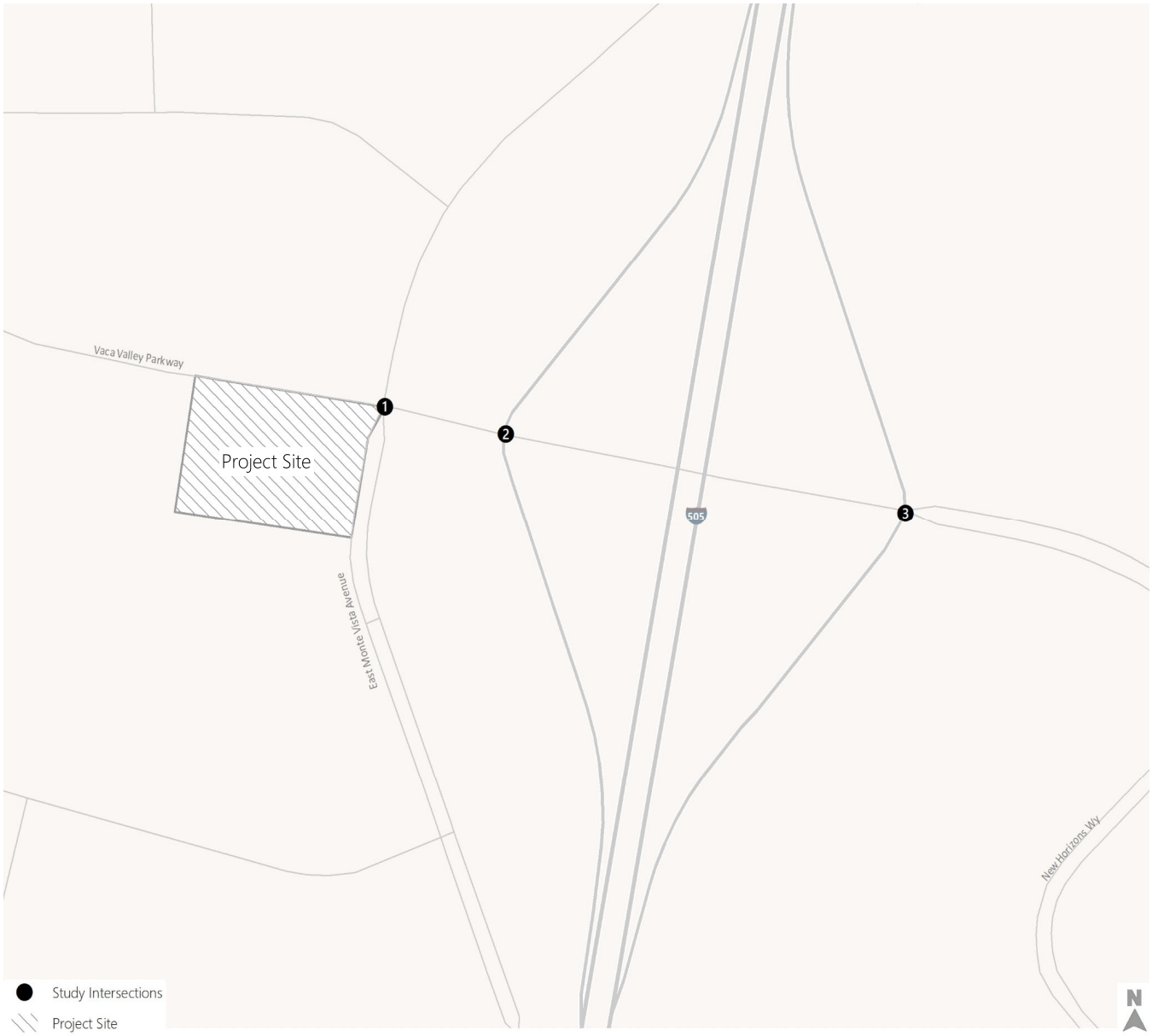


Figure 5

Peak Hour Traffic Volumes and Lane Configurations - Existing Plus Probable/Possible Conditions



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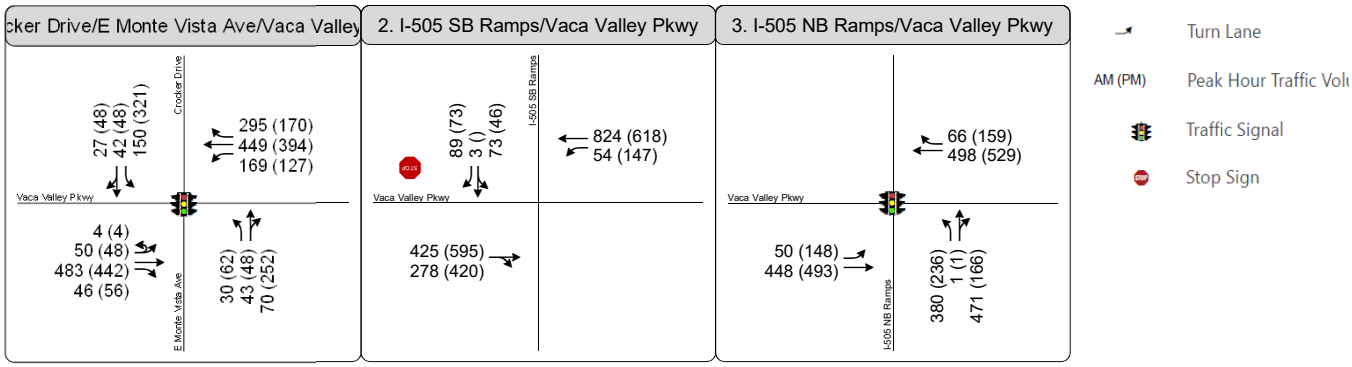
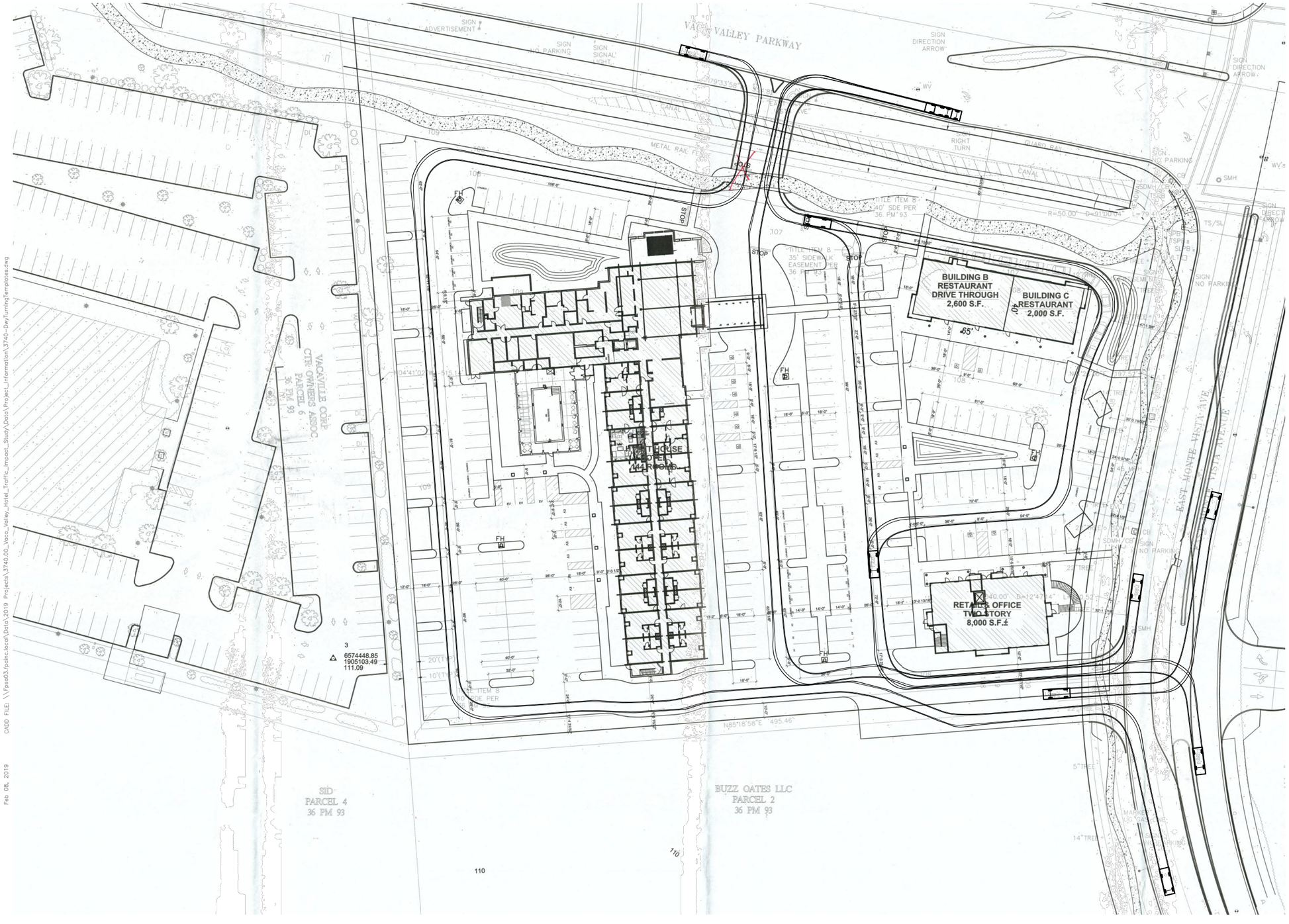


Figure 6

Peak Hour Traffic Volumes and Lane Configurations - Existing Plus Probable/Possible Projects Plus Project Conditions



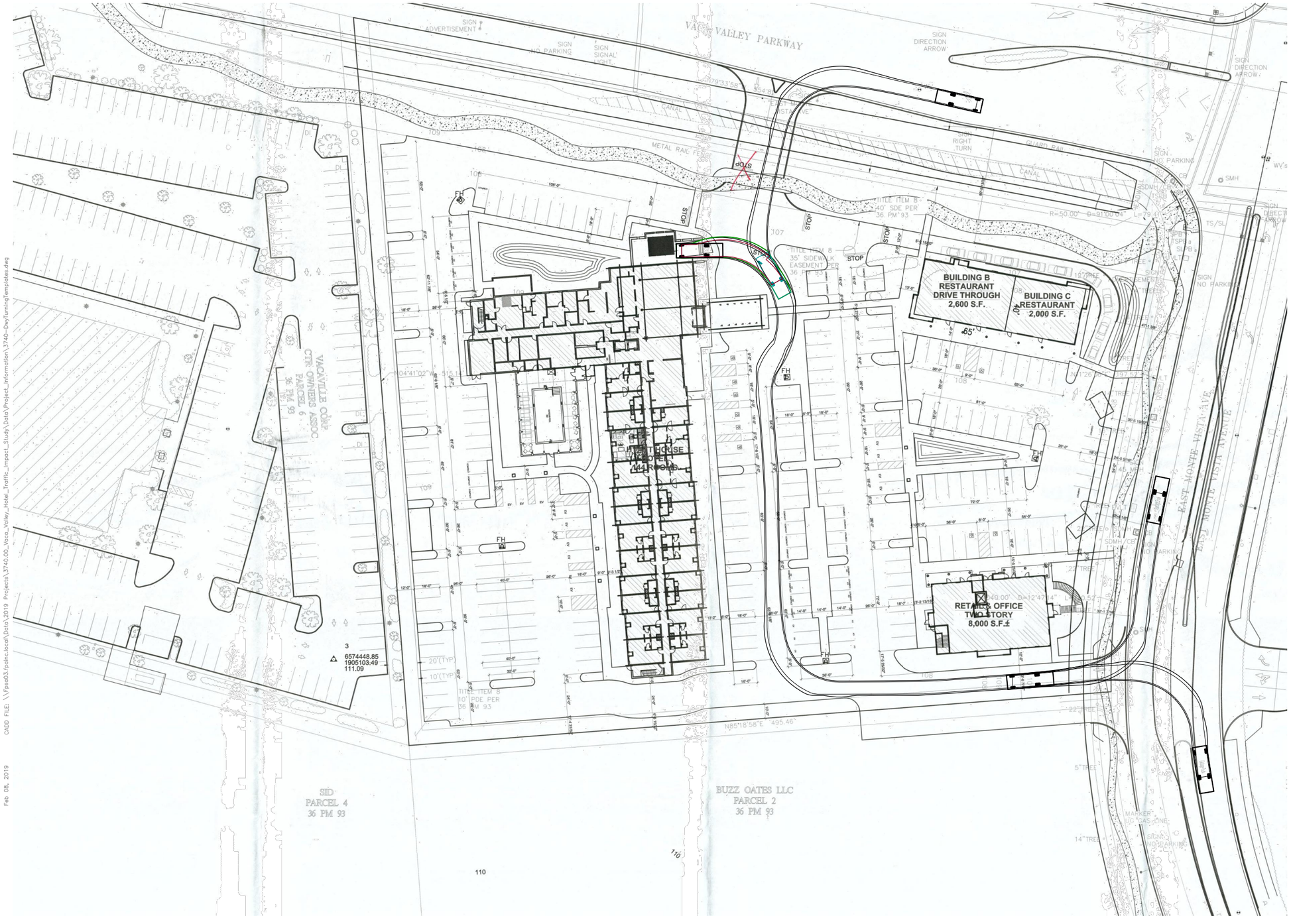
Feb 08, 2019 CADD FILE: \\Fsas03.lpoinc.local\Data\2019 Projects\3740.00_Voca_Valley_Hotel_Traffic_Impact_Study\Data\Project_Information\3740-DwgTurningTemplates.dwg

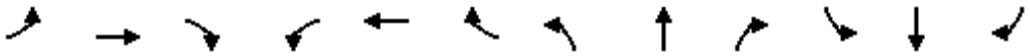
N
N.T.S.

Figure 7

Hotel Driveway Access
Passenger Vehicle Turning Templates
Vaca Valley Pkwy & E Monte Vista Ave

CONCEPTUAL - NOT FOR CONSTRUCTION. ADDITIONAL
DETAILED ANALYSIS AND ENGINEERING DESIGN REQUIRED.


VACA VALLEY PARKWAY
BUILDING B
RESTAURANT
DRIVE THROUGH
2,600 S.F.
BUILDING C
RESTAURANT
2,000 S.F.
65'
RETAIL & OFFICE
TWO STORY
8,000 S.F.±
HOTEL
4 STORY
111 ROOMS
VACAVILLE CORP
CTR OWNERS ASSOC
PARCEL 6
36 PM 99
SID
PARCEL 4
36 PM 93
BUZZ OATES LLC
PARCEL 2
36 PM 93
EAST MONTE VISTA AVE
STOP
FH
SIGN
SIGN
SIGN



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	476	45	99	449	274	21	34	48	143	22	27
Future Volume (veh/h)	41	476	45	99	449	274	21	34	48	143	22	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796
Adj Flow Rate, veh/h	46	535	36	111	504	216	24	38	33	161	25	23
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	7	7	7	7	7	7	7	7	7	7	7	7
Cap, veh/h	62	616	510	142	700	580	38	62	54	203	144	132
Arrive On Green	0.04	0.34	0.34	0.08	0.39	0.39	0.02	0.07	0.07	0.12	0.17	0.17
Sat Flow, veh/h	1711	1796	1487	1711	1796	1490	1711	887	770	1711	861	792
Grp Volume(v), veh/h	46	535	36	111	504	216	24	0	71	161	0	48
Grp Sat Flow(s),veh/h/ln	1711	1796	1487	1711	1796	1490	1711	0	1658	1711	0	1654
Q Serve(g_s), s	1.5	15.9	0.9	3.6	13.6	5.9	0.8	0.0	2.4	5.2	0.0	1.4
Cycle Q Clear(g_c), s	1.5	15.9	0.9	3.6	13.6	5.9	0.8	0.0	2.4	5.2	0.0	1.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.46	1.00		0.48
Lane Grp Cap(c), veh/h	62	616	510	142	700	580	38	0	116	203	0	276
V/C Ratio(X)	0.74	0.87	0.07	0.78	0.72	0.37	0.63	0.00	0.61	0.79	0.00	0.17
Avail Cap(c_a), veh/h	599	881	729	599	912	757	449	0	435	899	0	434
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.2	17.5	12.6	25.7	14.8	12.4	27.7	0.0	25.8	24.5	0.0	20.4
Incr Delay (d2), s/veh	6.3	5.2	0.0	3.6	1.3	0.2	6.3	0.0	1.9	2.6	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	6.3	0.3	1.5	4.7	1.6	0.4	0.0	0.9	2.0	0.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.5	22.7	12.7	29.3	16.1	12.6	34.0	0.0	27.7	27.1	0.0	20.5
LnGrp LOS	C	C	B	C	B	B	C	A	C	C	A	C
Approach Vol, veh/h		617			831			95			209	
Approach Delay, s/veh		22.9			16.9			29.3			25.6	
Approach LOS		C			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.7	25.3	6.3	15.8	7.1	27.9	11.8	10.3
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	5.6	17.9	2.8	3.4	3.5	15.6	7.2	4.4
Green Ext Time (p_c), s	0.1	1.7	0.0	0.1	0.0	2.1	0.1	0.1

Intersection Summary	
HCM 6th Ctrl Delay	20.8
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

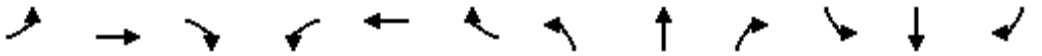
Intersection	
Int Delay, s/veh	6.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	407	260	54	744	0	0	0	0	73	3	78
Future Vol, veh/h	0	407	260	54	744	0	0	0	0	73	3	78
Conflicting Peds, #/hr	3	0	0	0	0	3	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	0	463	295	61	845	0	0	0	0	83	3	89

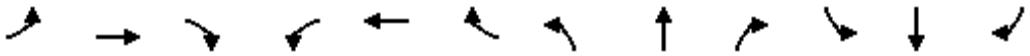
Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	758	0	0	1578	1725	845
Stage 1	-	-	-	-	-	-	967	967	-
Stage 2	-	-	-	-	-	-	611	758	-
Critical Hdwy	-	-	-	4.17	-	-	6.47	6.57	6.27
Critical Hdwy Stg 1	-	-	-	-	-	-	5.47	5.57	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.47	5.57	-
Follow-up Hdwy	-	-	-	2.263	-	-	3.563	4.063	3.363
Pot Cap-1 Maneuver	0	-	-	831	-	0	117	86	355
Stage 1	0	-	-	-	-	0	361	326	-
Stage 2	0	-	-	-	-	0	532	408	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	831	-	-	108	0	355
Mov Cap-2 Maneuver	-	-	-	-	-	-	108	0	-
Stage 1	-	-	-	-	-	-	335	0	-
Stage 2	-	-	-	-	-	-	532	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0.7	64.5
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	831	-	108	355
HCM Lane V/C Ratio	-	-	0.074	-	0.8	0.25
HCM Control Delay (s)	-	-	9.7	-	111.7	18.5
HCM Lane LOS	-	-	A	-	F	C
HCM 95th %tile Q(veh)	-	-	0.2	-	4.5	1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	437	0	0	452	66	346	1	471	0	0	0
Future Volume (veh/h)	43	437	0	0	452	66	346	1	471	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1811	1811	0	0	1811	1811	1811	1811	1811			
Adj Flow Rate, veh/h	50	508	0	0	526	55	402	1	384			
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86			
Percent Heavy Veh, %	6	6	0	0	6	6	6	6	6			
Cap, veh/h	86	887	0	0	662	547	558	1	496			
Arrive On Green	0.05	0.49	0.00	0.00	0.37	0.37	0.32	0.32	0.32			
Sat Flow, veh/h	1725	1811	0	0	1811	1498	1725	4	1531			
Grp Volume(v), veh/h	50	508	0	0	526	55	402	0	385			
Grp Sat Flow(s),veh/h/ln	1725	1811	0	0	1811	1498	1725	0	1535			
Q Serve(g_s), s	1.4	9.9	0.0	0.0	12.9	1.2	10.2	0.0	11.3			
Cycle Q Clear(g_c), s	1.4	9.9	0.0	0.0	12.9	1.2	10.2	0.0	11.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	86	887	0	0	662	547	558	0	497			
V/C Ratio(X)	0.58	0.57	0.00	0.00	0.80	0.10	0.72	0.00	0.77			
Avail Cap(c_a), veh/h	519	909	0	0	909	752	865	0	770			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	23.1	9.0	0.0	0.0	14.1	10.4	14.9	0.0	15.2			
Incr Delay (d2), s/veh	6.0	1.1	0.0	0.0	4.2	0.1	1.8	0.0	2.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.6	2.9	0.0	0.0	4.8	0.3	3.2	0.0	3.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.1	10.1	0.0	0.0	18.4	10.5	16.6	0.0	17.8			
LnGrp LOS	C	B	A	A	B	B	B	A	B			
Approach Vol, veh/h		558			581			787				
Approach Delay, s/veh		11.8			17.6			17.2				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		29.0			6.2	22.8		20.8				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		11.9			3.4	14.9		13.3				
Green Ext Time (p_c), s		3.4			0.1	3.3		2.8				
Intersection Summary												
HCM 6th Ctrl Delay			15.8									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	435	54	74	394	162	51	36	202	299	35	47
Future Volume (veh/h)	43	435	54	74	394	162	51	36	202	299	35	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	50	506	44	86	458	132	59	42	165	348	41	39
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	4	4	4	4	4	4	4	4	4	4	4	4
Cap, veh/h	63	552	468	110	602	499	75	49	194	387	285	271
Arrive On Green	0.04	0.30	0.30	0.06	0.33	0.33	0.04	0.15	0.15	0.22	0.33	0.33
Sat Flow, veh/h	1753	1841	1560	1753	1841	1527	1753	327	1283	1753	867	825
Grp Volume(v), veh/h	50	506	44	86	458	132	59	0	207	348	0	80
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1527	1753	0	1610	1753	0	1692
Q Serve(g_s), s	2.3	22.0	1.7	4.0	18.5	5.3	2.8	0.0	10.4	16.0	0.0	2.8
Cycle Q Clear(g_c), s	2.3	22.0	1.7	4.0	18.5	5.3	2.8	0.0	10.4	16.0	0.0	2.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.80	1.00		0.49
Lane Grp Cap(c), veh/h	63	552	468	110	602	499	75	0	243	387	0	556
V/C Ratio(X)	0.79	0.92	0.09	0.78	0.76	0.26	0.78	0.00	0.85	0.90	0.00	0.14
Avail Cap(c_a), veh/h	423	622	527	423	644	534	317	0	291	635	0	556
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.6	28.0	20.9	38.3	25.0	20.6	39.3	0.0	34.3	31.4	0.0	19.6
Incr Delay (d2), s/veh	8.0	16.5	0.0	4.4	4.4	0.1	6.5	0.0	15.9	6.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	11.5	0.6	1.8	8.1	1.8	1.3	0.0	4.9	7.0	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	47.6	44.5	20.9	42.7	29.4	20.7	45.8	0.0	50.2	37.7	0.0	19.6
LnGrp LOS	D	D	C	D	C	C	D	A	D	D	A	B
Approach Vol, veh/h		600			676			266			428	
Approach Delay, s/veh		43.0			29.4			49.2			34.3	
Approach LOS		D			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	30.6	8.6	33.5	8.0	32.8	23.3	18.8
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	6.0	24.0	4.8	4.8	4.3	20.5	18.0	12.4
Green Ext Time (p_c), s	0.0	0.9	0.0	0.1	0.0	1.4	0.3	0.2

Intersection Summary	
HCM 6th Ctrl Delay	37.3
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

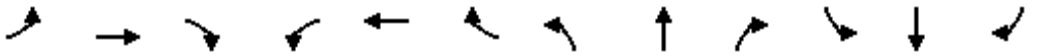
Intersection	
Int Delay, s/veh	7.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	546	390	147	564	0	0	0	0	46	0	66
Future Vol, veh/h	0	546	390	147	564	0	0	0	0	46	0	66
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	0	635	453	171	656	0	0	0	0	53	0	77

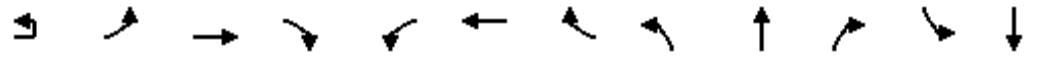
Major/Minor	Major1			Major2					Minor2		
Conflicting Flow All	-	0	0	1088	0	0			1860	2086	656
Stage 1	-	-	-	-	-	-			998	998	-
Stage 2	-	-	-	-	-	-			862	1088	-
Critical Hdwy	-	-	-	4.14	-	-			6.44	6.54	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-			5.44	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-			5.44	5.54	-
Follow-up Hdwy	-	-	-	2.236	-	-			3.536	4.036	3.336
Pot Cap-1 Maneuver	0	-	-	634	-	0			80	52	462
Stage 1	0	-	-	-	-	0			354	319	-
Stage 2	0	-	-	-	-	0			410	289	-
Platoon blocked, %		-	-		-						
Mov Cap-1 Maneuver	-	-	-	634	-	-			58	0	462
Mov Cap-2 Maneuver	-	-	-	-	-	-			58	0	-
Stage 1	-	-	-	-	-	-			258	0	-
Stage 2	-	-	-	-	-	-			410	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	2.6	95.1
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	634	-	58	462
HCM Lane V/C Ratio	-	-	0.27	-	0.922	0.166
HCM Control Delay (s)	-	-	12.8	-	211	14.3
HCM Lane LOS	-	-	B	-	F	B
HCM 95th %tile Q(veh)	-	-	1.1	-	4.2	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	141	451	0	0	501	159	210	1	166	0	0	0
Future Volume (veh/h)	141	451	0	0	501	159	210	1	166	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1841	1841	1841			
Adj Flow Rate, veh/h	153	490	0	0	545	122	228	1	127			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	4	4	0	0	4	4	4	4	4			
Cap, veh/h	201	1094	0	0	726	601	336	2	297			
Arrive On Green	0.11	0.59	0.00	0.00	0.39	0.39	0.19	0.19	0.19			
Sat Flow, veh/h	1753	1841	0	0	1841	1524	1753	12	1550			
Grp Volume(v), veh/h	153	490	0	0	545	122	228	0	128			
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1524	1753	0	1562			
Q Serve(g_s), s	3.7	6.4	0.0	0.0	11.1	2.3	5.2	0.0	3.1			
Cycle Q Clear(g_c), s	3.7	6.4	0.0	0.0	11.1	2.3	5.2	0.0	3.1			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		0.99			
Lane Grp Cap(c), veh/h	201	1094	0	0	726	601	336	0	300			
V/C Ratio(X)	0.76	0.45	0.00	0.00	0.75	0.20	0.68	0.00	0.43			
Avail Cap(c_a), veh/h	605	1094	0	0	1059	877	1009	0	899			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	18.6	4.9	0.0	0.0	11.3	8.7	16.3	0.0	15.5			
Incr Delay (d2), s/veh	5.8	0.4	0.0	0.0	2.4	0.2	2.4	0.0	1.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.6	1.2	0.0	0.0	3.6	0.6	1.8	0.0	0.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.5	5.3	0.0	0.0	13.7	8.9	18.7	0.0	16.4			
LnGrp LOS	C	A	A	A	B	A	B	A	B			
Approach Vol, veh/h		643			667			356				
Approach Delay, s/veh		9.9			12.8			17.9				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		30.4			8.7	21.7		13.0				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		8.4			5.7	13.1		7.2				
Green Ext Time (p_c), s		3.7			0.2	4.1		1.2				
Intersection Summary												
HCM 6th Ctrl Delay			12.8									
HCM 6th LOS			B									



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	4	46	483	46	132	449	274	30	36	61	143	33
Future Volume (veh/h)	4	46	483	46	132	449	274	30	36	61	143	33
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99	1.00		0.98	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach			No			No			No			No
Adj Sat Flow, veh/h/ln		1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796
Adj Flow Rate, veh/h		52	543	37	148	504	216	34	40	48	161	37
Peak Hour Factor		0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %		7	7	7	7	7	7	7	7	7	7	7
Cap, veh/h		65	613	512	186	740	614	49	61	73	202	185
Arrive On Green		0.04	0.34	0.34	0.11	0.41	0.41	0.03	0.08	0.08	0.12	0.17
Sat Flow, veh/h		1711	1796	1501	1711	1796	1490	1711	743	892	1711	1076
Grp Volume(v), veh/h		52	543	37	148	504	216	34	0	88	161	0
Grp Sat Flow(s),veh/h/ln		1711	1796	1501	1711	1796	1490	1711	0	1636	1711	0
Q Serve(g_s), s		1.9	18.0	1.0	5.3	14.4	6.3	1.2	0.0	3.3	5.8	0.0
Cycle Q Clear(g_c), s		1.9	18.0	1.0	5.3	14.4	6.3	1.2	0.0	3.3	5.8	0.0
Prop In Lane		1.00		1.00	1.00		1.00	1.00		0.55	1.00	
Lane Grp Cap(c), veh/h		65	613	512	186	740	614	49	0	134	202	0
V/C Ratio(X)		0.80	0.89	0.07	0.79	0.68	0.35	0.70	0.00	0.65	0.80	0.00
Avail Cap(c_a), veh/h		544	800	668	544	828	687	408	0	390	816	0
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		30.0	19.6	14.0	27.3	15.1	12.7	30.3	0.0	28.0	27.0	0.0
Incr Delay (d2), s/veh		8.2	8.3	0.0	2.9	1.5	0.2	6.5	0.0	2.0	2.7	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		0.9	7.8	0.3	2.1	5.2	1.8	0.6	0.0	1.3	2.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh		38.2	27.8	14.0	30.2	16.6	12.9	36.8	0.0	30.0	29.7	0.0
LnGrp LOS		D	C	B	C	B	B	D	A	C	C	A
Approach Vol, veh/h			632			868			122			219
Approach Delay, s/veh			27.9			18.0			31.9			27.8
Approach LOS			C			B			C			C

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	27.2	6.8	17.1	7.4	31.6	12.4	11.5
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	7.3	20.0	3.2	3.9	3.9	16.4	7.8	5.3
Green Ext Time (p_c), s	0.1	1.5	0.0	0.1	0.0	2.1	0.1	0.1

Intersection Summary	
HCM 6th Ctrl Delay	23.5
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	27
Future Volume (veh/h)	27
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Work Zone On Approach	
Adj Sat Flow, veh/h/ln	1796
Adj Flow Rate, veh/h	21
Peak Hour Factor	0.89
Percent Heavy Veh, %	7
Cap, veh/h	105
Arrive On Green	0.17
Sat Flow, veh/h	611
Grp Volume(v), veh/h	58
Grp Sat Flow(s),veh/h/ln	1686
Q Serve(g_s), s	1.9
Cycle Q Clear(g_c), s	1.9
Prop In Lane	0.36
Lane Grp Cap(c), veh/h	289
V/C Ratio(X)	0.20
Avail Cap(c_a), veh/h	402
HCM Platoon Ratio	1.00
Upstream Filter(I)	1.00
Uniform Delay (d), s/veh	22.3
Incr Delay (d2), s/veh	0.1
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.7
Unsig. Movement Delay, s/veh	
LnGrp Delay(d),s/veh	22.5
LnGrp LOS	C
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer - Assigned Phs	

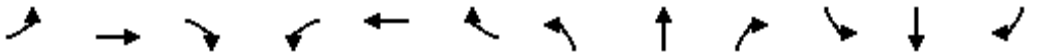
Intersection	
Int Delay, s/veh	7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	409	278	54	771	0	0	0	0	73	3	84
Future Vol, veh/h	0	409	278	54	771	0	0	0	0	73	3	84
Conflicting Peds, #/hr	3	0	0	0	0	3	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	0	465	316	61	876	0	0	0	0	83	3	95

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	781	0	0	1621	1779	876
Stage 1	-	-	-	-	-	-	998	998	-
Stage 2	-	-	-	-	-	-	623	781	-
Critical Hdwy	-	-	-	4.17	-	-	6.47	6.57	6.27
Critical Hdwy Stg 1	-	-	-	-	-	-	5.47	5.57	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.47	5.57	-
Follow-up Hdwy	-	-	-	2.263	-	-	3.563	4.063	3.363
Pot Cap-1 Maneuver	0	-	-	815	-	0	110	80	341
Stage 1	0	-	-	-	-	0	349	315	-
Stage 2	0	-	-	-	-	0	525	398	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	815	-	-	102	0	341
Mov Cap-2 Maneuver	-	-	-	-	-	-	102	0	-
Stage 1	-	-	-	-	-	-	323	0	-
Stage 2	-	-	-	-	-	-	525	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0.6	70.5
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	815	-	102	341
HCM Lane V/C Ratio	-	-	0.075	-	0.847	0.28
HCM Control Delay (s)	-	-	9.8	-	126.8	19.6
HCM Lane LOS	-	-	A	-	F	C
HCM 95th %tile Q(veh)	-	-	0.2	-	4.8	1.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	433	0	0	460	66	365	1	471	0	0	0
Future Volume (veh/h)	49	433	0	0	460	66	365	1	471	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1811	1811	0	0	1811	1811	1811	1811	1811			
Adj Flow Rate, veh/h	57	503	0	0	535	55	424	1	384			
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86			
Percent Heavy Veh, %	6	6	0	0	6	6	6	6	6			
Cap, veh/h	94	896	0	0	665	551	557	1	494			
Arrive On Green	0.05	0.49	0.00	0.00	0.37	0.37	0.32	0.32	0.32			
Sat Flow, veh/h	1725	1811	0	0	1811	1498	1725	4	1531			
Grp Volume(v), veh/h	57	503	0	0	535	55	424	0	385			
Grp Sat Flow(s),veh/h/ln	1725	1811	0	0	1811	1498	1725	0	1535			
Q Serve(g_s), s	1.6	9.9	0.0	0.0	13.5	1.2	11.2	0.0	11.5			
Cycle Q Clear(g_c), s	1.6	9.9	0.0	0.0	13.5	1.2	11.2	0.0	11.5			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	94	896	0	0	665	551	557	0	495			
V/C Ratio(X)	0.61	0.56	0.00	0.00	0.80	0.10	0.76	0.00	0.78			
Avail Cap(c_a), veh/h	509	896	0	0	890	736	848	0	755			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	23.5	9.0	0.0	0.0	14.4	10.6	15.5	0.0	15.6			
Incr Delay (d2), s/veh	6.2	1.0	0.0	0.0	4.7	0.1	2.2	0.0	2.9			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.8	2.9	0.0	0.0	5.1	0.3	3.6	0.0	3.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.7	10.0	0.0	0.0	19.2	10.7	17.7	0.0	18.4			
LnGrp LOS	C	B	A	A	B	B	B	A	B			
Approach Vol, veh/h		560			590			809				
Approach Delay, s/veh		12.0			18.4			18.0				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		29.8			6.5	23.3		21.1				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		11.9			3.6	15.5		13.5				
Green Ext Time (p_c), s		3.4			0.1	3.2		2.9				
Intersection Summary												
HCM 6th Ctrl Delay			16.4									
HCM 6th LOS			B									

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	41	0	5	0	0	0	7	86	0	0	150	61
Future Vol, veh/h	41	0	5	0	0	0	7	86	0	0	150	61
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	0	-	-	0	-	-	-	50	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	46	0	6	0	0	0	8	97	0	0	169	69

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	317	317	119	198	351	97	238	0	0	97	0	0
Stage 1	204	204	-	113	113	-	-	-	-	-	-	-
Stage 2	113	113	-	85	238	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	624	598	911	752	573	959	1327	-	-	1495	-	-
Stage 1	779	732	-	891	802	-	-	-	-	-	-	-
Stage 2	891	802	-	914	708	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	621	594	911	744	570	959	1327	-	-	1495	-	-
Mov Cap-2 Maneuver	621	594	-	744	570	-	-	-	-	-	-	-
Stage 1	774	732	-	886	797	-	-	-	-	-	-	-
Stage 2	886	797	-	908	708	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.1	0	0.6	0
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1327	-	-	621	911	-	-	1495	-	-
HCM Lane V/C Ratio	0.006	-	-	0.074	0.006	-	-	-	-	-
HCM Control Delay (s)	7.7	0	-	11.3	9	0	0	0	-	-
HCM Lane LOS	A	A	-	B	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-	0	-	-

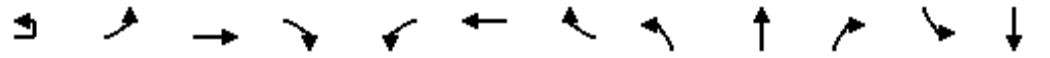
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	545	18	0	510	0	34
Future Vol, veh/h	545	18	0	510	0	34
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	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	612	20	0	573	0	38

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	622
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.319
Pot Cap-1 Maneuver	-	-	0	-	0	486
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	486
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	13
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	486	-	-	-
HCM Lane V/C Ratio	0.079	-	-	-
HCM Control Delay (s)	13	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.3	-	-	-



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	4	48	442	56	109	394	162	62	39	214	299	46
Future Volume (veh/h)	4	48	442	56	109	394	162	62	39	214	299	46
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00	1.00		0.98	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach			No			No			No			No
Adj Sat Flow, veh/h/ln		1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h		56	514	46	127	458	132	72	45	179	348	53
Peak Hour Factor		0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %		4	4	4	4	4	4	4	4	4	4	4
Cap, veh/h		91	576	488	176	666	552	111	59	234	399	341
Arrive On Green		0.05	0.31	0.31	0.10	0.36	0.36	0.06	0.18	0.16	0.23	0.35
Sat Flow, veh/h		1753	1841	1560	1753	1841	1527	1753	323	1286	1753	985
Grp Volume(v), veh/h		56	514	46	127	458	132	72	0	224	348	0
Grp Sat Flow(s),veh/h/ln		1753	1841	1560	1753	1841	1527	1753	0	1609	1753	0
Q Serve(g_s), s		2.8	24.0	1.9	6.3	19.1	5.4	3.6	0.0	12.0	17.2	0.0
Cycle Q Clear(g_c), s		2.8	24.0	1.9	6.3	19.1	5.4	3.6	0.0	12.0	17.2	0.0
Prop In Lane		1.00		1.00	1.00		1.00	1.00		0.80	1.00	
Lane Grp Cap(c), veh/h		91	576	488	176	666	552	111	0	292	399	0
V/C Ratio(X)		0.62	0.89	0.09	0.72	0.69	0.24	0.65	0.00	0.77	0.87	0.00
Avail Cap(c_a), veh/h		408	606	514	408	666	552	311	0	309	603	0
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		41.9	29.5	21.9	39.3	24.5	20.1	41.2	0.0	36.0	33.6	0.0
Incr Delay (d2), s/veh		2.5	14.5	0.0	2.1	2.6	0.1	2.3	0.0	9.2	6.2	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.2	12.2	0.7	2.7	8.2	1.8	1.6	0.0	5.3	7.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh		44.4	44.0	22.0	41.4	27.0	20.2	43.6	0.0	45.1	39.7	0.0
LnGrp LOS		D	D	C	D	C	C	D	A	D	D	A
Approach Vol, veh/h			616			717			296			440
Approach Delay, s/veh			42.4			28.3			44.8			35.8
Approach LOS			D			C			D			D

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.1	32.2	9.7	35.2	8.7	36.6	24.5	20.4
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	8.3	26.0	5.6	5.4	4.8	21.1	19.2	14.0
Green Ext Time (p_c), s	0.1	0.5	0.0	0.1	0.0	1.4	0.3	0.1

Intersection Summary	
HCM 6th Ctrl Delay	36.5
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	47
Future Volume (veh/h)	47
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Work Zone On Approach	
Adj Sat Flow, veh/h/ln	1841
Adj Flow Rate, veh/h	39
Peak Hour Factor	0.86
Percent Heavy Veh, %	4
Cap, veh/h	251
Arrive On Green	0.32
Sat Flow, veh/h	725
Grp Volume(v), veh/h	92
Grp Sat Flow(s),veh/h/ln	1710
Q Serve(g_s), s	3.4
Cycle Q Clear(g_c), s	3.4
Prop In Lane	0.42
Lane Grp Cap(c), veh/h	591
V/C Ratio(X)	0.16
Avail Cap(c_a), veh/h	591
HCM Platoon Ratio	1.00
Upstream Filter(I)	1.00
Uniform Delay (d), s/veh	20.7
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	1.3
Unsig. Movement Delay, s/veh	
LnGrp Delay(d),s/veh	20.8
LnGrp LOS	C
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer - Assigned Phs	

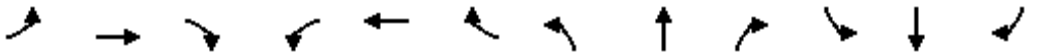
Intersection	
Int Delay, s/veh	7.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	553	402	147	593	0	0	0	0	46	0	72
Future Vol, veh/h	0	553	402	147	593	0	0	0	0	46	0	72
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	0	643	467	171	690	0	0	0	0	53	0	84

Major/Minor	Major1			Major2				Minor2		
Conflicting Flow All	-	0	0	1110	0	0		1909	2142	690
Stage 1	-	-	-	-	-	-		1032	1032	-
Stage 2	-	-	-	-	-	-		877	1110	-
Critical Hdwy	-	-	-	4.14	-	-		6.44	6.54	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-		5.44	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-		5.44	5.54	-
Follow-up Hdwy	-	-	-	2.236	-	-		3.536	4.036	3.336
Pot Cap-1 Maneuver	0	-	-	622	-	0		74	48	442
Stage 1	0	-	-	-	-	0		341	308	-
Stage 2	0	-	-	-	-	0		404	283	-
Platoon blocked, %		-	-		-					
Mov Cap-1 Maneuver	-	-	-	622	-	-		54	0	442
Mov Cap-2 Maneuver	-	-	-	-	-	-		54	0	-
Stage 1	-	-	-	-	-	-		247	0	-
Stage 2	-	-	-	-	-	-		404	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	2.6	103.5
HCM LOS			F

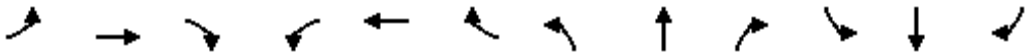
Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	622	-	54	442
HCM Lane V/C Ratio	-	-	0.275	-	0.991	0.189
HCM Control Delay (s)	-	-	13	-	241.9	15
HCM Lane LOS	-	-	B	-	F	C
HCM 95th %tile Q(veh)	-	-	1.1	-	4.4	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	145	454	0	0	515	159	225	1	166	0	0	0
Future Volume (veh/h)	145	454	0	0	515	159	225	1	166	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1841	1841	1841			
Adj Flow Rate, veh/h	158	493	0	0	560	122	245	1	127			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	4	4	0	0	4	4	4	4	4			
Cap, veh/h	197	1120	0	0	749	621	374	3	331			
Arrive On Green	0.11	0.61	0.00	0.00	0.41	0.41	0.21	0.21	0.20			
Sat Flow, veh/h	1753	1841	0	0	1841	1524	1753	12	1550			
Grp Volume(v), veh/h	158	493	0	0	560	122	245	0	128			
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1524	1753	0	1562			
Q Serve(g_s), s	4.0	6.4	0.0	0.0	11.6	2.3	5.7	0.0	3.2			
Cycle Q Clear(g_c), s	4.0	6.4	0.0	0.0	11.6	2.3	5.7	0.0	3.2			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		0.99			
Lane Grp Cap(c), veh/h	197	1120	0	0	749	621	374	0	334			
V/C Ratio(X)	0.80	0.44	0.00	0.00	0.75	0.20	0.65	0.00	0.38			
Avail Cap(c_a), veh/h	574	1120	0	0	1049	869	1003	0	894			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	19.5	4.7	0.0	0.0	11.3	8.6	16.1	0.0	15.4			
Incr Delay (d2), s/veh	7.5	0.4	0.0	0.0	2.5	0.2	1.9	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.7	1.1	0.0	0.0	3.8	0.6	1.9	0.0	0.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.9	5.1	0.0	0.0	13.8	8.8	18.1	0.0	16.2			
LnGrp LOS	C	A	A	A	B	A	B	A	B			
Approach Vol, veh/h		651			682			373				
Approach Delay, s/veh		10.4			12.9			17.4				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		31.3			9.0	22.3		13.6				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		8.4			6.0	13.6		7.7				
Green Ext Time (p_c), s		3.7			0.2	4.0		1.2				
Intersection Summary												
HCM 6th Ctrl Delay			12.9									
HCM 6th LOS			B									

HCM 6th Edition methodology supports speed limit in the range of 25 to 55 mph.

HCM 6th Edition methodology does not support Non-NEMA phasing.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	476	45	136	449	295	21	40	58	150	31	27
Future Volume (veh/h)	45	476	45	136	449	295	21	40	58	150	31	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796
Adj Flow Rate, veh/h	51	535	36	153	504	232	24	45	46	169	35	21
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	7	7	7	7	7	7	7	7	7	7	7	7
Cap, veh/h	64	604	500	192	739	613	37	67	69	211	194	116
Arrive On Green	0.04	0.34	0.34	0.11	0.41	0.41	0.02	0.08	0.08	0.12	0.18	0.18
Sat Flow, veh/h	1711	1796	1487	1711	1796	1490	1711	814	832	1711	1052	631
Grp Volume(v), veh/h	51	535	36	153	504	232	24	0	91	169	0	56
Grp Sat Flow(s),veh/h/ln	1711	1796	1487	1711	1796	1490	1711	0	1646	1711	0	1683
Q Serve(g_s), s	1.9	17.9	1.0	5.6	14.6	6.9	0.9	0.0	3.4	6.1	0.0	1.8
Cycle Q Clear(g_c), s	1.9	17.9	1.0	5.6	14.6	6.9	0.9	0.0	3.4	6.1	0.0	1.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.51	1.00		0.38
Lane Grp Cap(c), veh/h	64	604	500	192	739	613	37	0	136	211	0	310
V/C Ratio(X)	0.80	0.89	0.07	0.80	0.68	0.38	0.65	0.00	0.67	0.80	0.00	0.18
Avail Cap(c_a), veh/h	537	790	654	537	818	679	403	0	388	806	0	397
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	30.4	20.0	14.4	27.6	15.3	13.1	30.9	0.0	28.3	27.2	0.0	21.9
Incr Delay (d2), s/veh	8.2	8.3	0.0	2.9	1.6	0.2	6.8	0.0	2.1	2.7	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	7.8	0.3	2.2	5.3	2.0	0.4	0.0	1.3	2.4	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.6	28.3	14.4	30.4	16.9	13.2	37.7	0.0	30.4	29.8	0.0	22.0
LnGrp LOS	D	C	B	C	B	B	D	A	C	C	A	C
Approach Vol, veh/h		622			889			115			225	
Approach Delay, s/veh		28.3			18.3			31.9			27.9	
Approach LOS		C			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.1	27.1	6.4	18.0	7.4	31.9	12.8	11.6
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	7.6	19.9	2.9	3.8	3.9	16.6	8.1	5.4
Green Ext Time (p_c), s	0.1	1.5	0.0	0.1	0.0	2.1	0.1	0.1

Intersection Summary	
HCM 6th Ctrl Delay	23.7
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

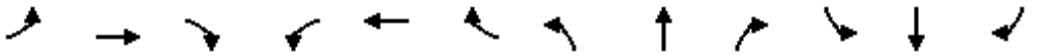
Intersection	
Int Delay, s/veh	7.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	417	267	54	795	0	0	0	0	73	3	85
Future Vol, veh/h	0	417	267	54	795	0	0	0	0	73	3	85
Conflicting Peds, #/hr	3	0	0	0	0	3	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	0	474	303	61	903	0	0	0	0	83	3	97

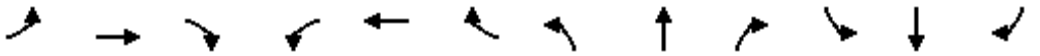
Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	777	0	0	1651	1802	903
Stage 1	-	-	-	-	-	-	1025	1025	-
Stage 2	-	-	-	-	-	-	626	777	-
Critical Hdwy	-	-	-	4.17	-	-	6.47	6.57	6.27
Critical Hdwy Stg 1	-	-	-	-	-	-	5.47	5.57	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.47	5.57	-
Follow-up Hdwy	-	-	-	2.263	-	-	3.563	4.063	3.363
Pot Cap-1 Maneuver	0	-	-	818	-	0	106	77	329
Stage 1	0	-	-	-	-	0	339	306	-
Stage 2	0	-	-	-	-	0	524	400	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	818	-	-	98	0	329
Mov Cap-2 Maneuver	-	-	-	-	-	-	98	0	-
Stage 1	-	-	-	-	-	-	314	0	-
Stage 2	-	-	-	-	-	-	524	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0.6	76.2
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	818	-	98	329
HCM Lane V/C Ratio	-	-	0.075	-	0.881	0.294
HCM Control Delay (s)	-	-	9.8	-	138.6	20.4
HCM Lane LOS	-	-	A	-	F	C
HCM 95th %tile Q(veh)	-	-	0.2	-	5	1.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	446	0	0	481	66	368	1	471	0	0	0
Future Volume (veh/h)	44	446	0	0	481	66	368	1	471	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1811	1811	0	0	1811	1811	1811	1811	1811			
Adj Flow Rate, veh/h	51	519	0	0	559	55	428	1	384			
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86			
Percent Heavy Veh, %	6	6	0	0	6	6	6	6	6			
Cap, veh/h	87	904	0	0	683	565	554	1	492			
Arrive On Green	0.05	0.50	0.00	0.00	0.38	0.38	0.32	0.32	0.32			
Sat Flow, veh/h	1725	1811	0	0	1811	1499	1725	4	1531			
Grp Volume(v), veh/h	51	519	0	0	559	55	428	0	385			
Grp Sat Flow(s),veh/h/ln	1725	1811	0	0	1811	1499	1725	0	1535			
Q Serve(g_s), s	1.5	10.4	0.0	0.0	14.4	1.2	11.6	0.0	11.8			
Cycle Q Clear(g_c), s	1.5	10.4	0.0	0.0	14.4	1.2	11.6	0.0	11.8			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	87	904	0	0	683	565	554	0	493			
V/C Ratio(X)	0.59	0.57	0.00	0.00	0.82	0.10	0.77	0.00	0.78			
Avail Cap(c_a), veh/h	500	904	0	0	875	724	833	0	742			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.0	9.1	0.0	0.0	14.5	10.4	15.9	0.0	15.9			
Incr Delay (d2), s/veh	6.2	1.1	0.0	0.0	5.5	0.1	2.6	0.0	3.1			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	3.1	0.0	0.0	5.6	0.3	3.8	0.0	3.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.3	10.2	0.0	0.0	20.1	10.5	18.4	0.0	19.0			
LnGrp LOS	C	B	A	A	C	B	B	A	B			
Approach Vol, veh/h		570			614			813				
Approach Delay, s/veh		12.0			19.2			18.7				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		30.4			6.3	24.1		21.3				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		12.4			3.5	16.4		13.8				
Green Ext Time (p_c), s		3.4			0.1	3.1		2.9				
Intersection Summary												
HCM 6th Ctrl Delay			16.9									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	435	54	88	394	170	51	45	240	321	41	48
Future Volume (veh/h)	43	435	54	88	394	170	51	45	240	321	41	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	50	506	44	102	458	139	59	52	195	373	48	40
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	4	4	4	4	4	4	4	4	4	4	4	4
Cap, veh/h	64	540	457	129	609	505	75	55	207	407	326	272
Arrive On Green	0.04	0.29	0.29	0.07	0.33	0.33	0.04	0.16	0.16	0.23	0.35	0.35
Sat Flow, veh/h	1753	1841	1560	1753	1841	1527	1753	339	1272	1753	928	773
Grp Volume(v), veh/h	50	506	44	102	458	139	59	0	247	373	0	88
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1527	1753	0	1612	1753	0	1702
Q Serve(g_s), s	2.6	24.7	1.9	5.3	20.5	6.2	3.1	0.0	14.0	19.1	0.0	3.3
Cycle Q Clear(g_c), s	2.6	24.7	1.9	5.3	20.5	6.2	3.1	0.0	14.0	19.1	0.0	3.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.79	1.00		0.45
Lane Grp Cap(c), veh/h	64	540	457	129	609	505	75	0	262	407	0	598
V/C Ratio(X)	0.79	0.94	0.10	0.79	0.75	0.28	0.78	0.00	0.94	0.92	0.00	0.15
Avail Cap(c_a), veh/h	380	559	473	380	609	505	285	0	262	570	0	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	44.1	31.8	23.7	42.0	27.5	22.7	43.7	0.0	38.2	34.6	0.0	20.5
Incr Delay (d2), s/veh	7.7	22.9	0.0	4.0	4.8	0.1	6.4	0.0	39.8	13.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	13.8	0.7	2.4	9.2	2.1	1.4	0.0	8.2	9.2	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.8	54.7	23.8	46.0	32.3	22.9	50.1	0.0	78.0	47.7	0.0	20.5
LnGrp LOS	D	D	C	D	C	C	D	A	E	D	A	C
Approach Vol, veh/h		600			699			306			461	
Approach Delay, s/veh		52.2			32.4			72.6			42.5	
Approach LOS		D			C			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	32.8	9.0	38.7	8.3	36.2	26.4	21.3
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	7.3	26.7	5.1	5.3	4.6	22.5	21.1	16.0
Green Ext Time (p_c), s	0.1	0.3	0.0	0.1	0.0	1.2	0.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	46.4
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	8.3

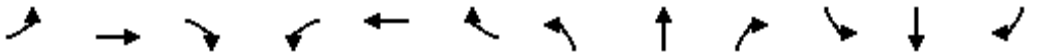
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	582	414	147	584	0	0	0	0	46	0	68
Future Vol, veh/h	0	582	414	147	584	0	0	0	0	46	0	68
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	0	677	481	171	679	0	0	0	0	53	0	79

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	1158	0	0	1939	2179	679
Stage 1	-	-	-	-	-	-	1021	1021	-
Stage 2	-	-	-	-	-	-	918	1158	-
Critical Hdwy	-	-	-	4.14	-	-	6.44	6.54	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-	5.44	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.44	5.54	-
Follow-up Hdwy	-	-	-	2.236	-	-	3.536	4.036	3.336
Pot Cap-1 Maneuver	0	-	-	596	-	0	71	46	448
Stage 1	0	-	-	-	-	0	345	311	-
Stage 2	0	-	-	-	-	0	386	268	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	596	-	-	~ 51	0	448
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 51	0	-
Stage 1	-	-	-	-	-	-	246	0	-
Stage 2	-	-	-	-	-	-	386	0	-

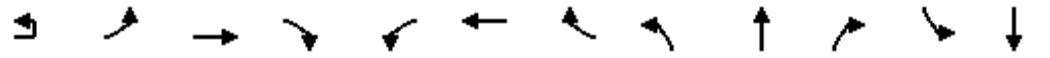
Approach	EB	WB	SB
HCM Control Delay, s	0	2.7	117.5
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	596	-	51	448
HCM Lane V/C Ratio	-	-	0.287	-	1.049	0.176
HCM Control Delay (s)	-	-	13.5	-	269.4	14.8
HCM Lane LOS	-	-	B	-	F	B
HCM 95th %tile Q(veh)	-	-	1.2	-	4.6	0.6

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	146	482	0	0	512	159	219	1	166	0	0	0
Future Volume (veh/h)	146	482	0	0	512	159	219	1	166	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1841	1841	1841			
Adj Flow Rate, veh/h	159	524	0	0	557	122	238	1	127			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	4	4	0	0	4	4	4	4	4			
Cap, veh/h	209	1099	0	0	728	603	343	2	304			
Arrive On Green	0.12	0.60	0.00	0.00	0.40	0.40	0.20	0.20	0.20			
Sat Flow, veh/h	1753	1841	0	0	1841	1524	1753	12	1550			
Grp Volume(v), veh/h	159	524	0	0	557	122	238	0	128			
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1524	1753	0	1562			
Q Serve(g_s), s	3.9	7.2	0.0	0.0	11.8	2.4	5.7	0.0	3.2			
Cycle Q Clear(g_c), s	3.9	7.2	0.0	0.0	11.8	2.4	5.7	0.0	3.2			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		0.99			
Lane Grp Cap(c), veh/h	209	1099	0	0	728	603	343	0	306			
V/C Ratio(X)	0.76	0.48	0.00	0.00	0.76	0.20	0.69	0.00	0.42			
Avail Cap(c_a), veh/h	585	1099	0	0	1024	848	976	0	869			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	19.2	5.1	0.0	0.0	11.8	8.9	16.8	0.0	15.8			
Incr Delay (d2), s/veh	5.7	0.5	0.0	0.0	2.9	0.2	2.5	0.0	0.9			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.7	1.4	0.0	0.0	3.9	0.6	2.0	0.0	0.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.8	5.6	0.0	0.0	14.6	9.2	19.3	0.0	16.7			
LnGrp LOS	C	A	A	A	B	A	B	A	B			
Approach Vol, veh/h		683			679			366				
Approach Delay, s/veh		10.0			13.7			18.4				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		31.4			9.0	22.4		13.5				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		9.2			5.9	13.8		7.7				
Green Ext Time (p_c), s		3.9			0.3	4.0		1.2				
Intersection Summary												
HCM 6th Ctrl Delay			13.2									
HCM 6th LOS			B									



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	4	50	483	46	169	449	295	30	43	70	150	42
Future Volume (veh/h)	4	50	483	46	169	449	295	30	43	70	150	42
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99	1.00		0.98	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach			No			No			No			No
Adj Sat Flow, veh/h/ln		1796	1796	1796	1796	1796	1796	1796	1796	1796	1796	1796
Adj Flow Rate, veh/h		56	543	37	190	504	232	34	48	55	169	47
Peak Hour Factor		0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %		7	7	7	7	7	7	7	7	7	7	7
Cap, veh/h		70	602	503	231	772	640	47	69	79	209	210
Arrive On Green		0.04	0.34	0.34	0.14	0.43	0.43	0.03	0.09	0.09	0.12	0.18
Sat Flow, veh/h		1711	1796	1501	1711	1796	1490	1711	764	875	1711	1139
Grp Volume(v), veh/h		56	543	37	190	504	232	34	0	103	169	0
Grp Sat Flow(s),veh/h/ln		1711	1796	1501	1711	1796	1490	1711	0	1639	1711	0
Q Serve(g_s), s		2.3	20.0	1.2	7.5	15.4	7.3	1.4	0.0	4.2	6.7	0.0
Cycle Q Clear(g_c), s		2.3	20.0	1.2	7.5	15.4	7.3	1.4	0.0	4.2	6.7	0.0
Prop In Lane		1.00		1.00	1.00		1.00	1.00		0.53	1.00	
Lane Grp Cap(c), veh/h		70	602	503	231	772	640	47	0	148	209	0
V/C Ratio(X)		0.80	0.90	0.07	0.82	0.65	0.36	0.72	0.00	0.70	0.81	0.00
Avail Cap(c_a), veh/h		494	726	606	494	772	640	370	0	355	740	0
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		33.0	22.0	15.7	29.2	15.7	13.4	33.4	0.0	30.6	29.6	0.0
Incr Delay (d2), s/veh		7.8	11.8	0.0	2.8	1.6	0.2	7.3	0.0	2.2	2.8	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.0	9.3	0.4	3.0	5.7	2.1	0.6	0.0	1.6	2.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh		40.7	33.8	15.7	31.9	17.3	13.5	40.7	0.0	32.8	32.5	0.0
LnGrp LOS		D	C	B	C	B	B	D	A	C	C	A
Approach Vol, veh/h			636			926			137			239
Approach Delay, s/veh			33.4			19.4			34.8			30.0
Approach LOS			C			B			C			C

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	28.9	6.9	19.1	7.8	35.5	13.5	12.5
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	9.5	22.0	3.4	4.4	4.3	17.4	8.7	6.2
Green Ext Time (p_c), s	0.1	1.3	0.0	0.1	0.0	2.0	0.1	0.1

Intersection Summary	
HCM 6th Ctrl Delay	26.4
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	27
Future Volume (veh/h)	27
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Work Zone On Approach	
Adj Sat Flow, veh/h/ln	1796
Adj Flow Rate, veh/h	23
Peak Hour Factor	0.89
Percent Heavy Veh, %	7
Cap, veh/h	103
Arrive On Green	0.18
Sat Flow, veh/h	557
Grp Volume(v), veh/h	70
Grp Sat Flow(s),veh/h/ln	1696
Q Serve(g_s), s	2.4
Cycle Q Clear(g_c), s	2.4
Prop In Lane	0.33
Lane Grp Cap(c), veh/h	313
V/C Ratio(X)	0.22
Avail Cap(c_a), veh/h	367
HCM Platoon Ratio	1.00
Upstream Filter(I)	1.00
Uniform Delay (d), s/veh	24.0
Incr Delay (d2), s/veh	0.1
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.9
Unsig. Movement Delay, s/veh	
LnGrp Delay(d),s/veh	24.2
LnGrp LOS	C
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer - Assigned Phs	

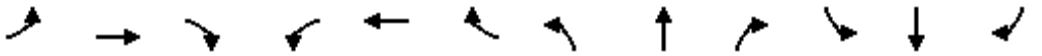
Intersection	
Int Delay, s/veh	8.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	425	278	54	824	0	0	0	0	73	3	89
Future Vol, veh/h	0	425	278	54	824	0	0	0	0	73	3	89
Conflicting Peds, #/hr	3	0	0	0	0	3	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	0	483	316	61	936	0	0	0	0	83	3	101

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	799	0	0	1699	1857	936
Stage 1	-	-	-	-	-	-	1058	1058	-
Stage 2	-	-	-	-	-	-	641	799	-
Critical Hdwy	-	-	-	4.17	-	-	6.47	6.57	6.27
Critical Hdwy Stg 1	-	-	-	-	-	-	5.47	5.57	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.47	5.57	-
Follow-up Hdwy	-	-	-	2.263	-	-	3.563	4.063	3.363
Pot Cap-1 Maneuver	0	-	-	802	-	0	99	71	315
Stage 1	0	-	-	-	-	0	327	295	-
Stage 2	0	-	-	-	-	0	515	391	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	802	-	-	91	0	315
Mov Cap-2 Maneuver	-	-	-	-	-	-	91	0	-
Stage 1	-	-	-	-	-	-	302	0	-
Stage 2	-	-	-	-	-	-	515	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0.6	87.1
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	802	-	91	315
HCM Lane V/C Ratio	-	-	0.077	-	0.949	0.321
HCM Control Delay (s)	-	-	9.9	-	163.6	21.7
HCM Lane LOS	-	-	A	-	F	C
HCM 95th %tile Q(veh)	-	-	0.2	-	5.4	1.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	448	0	0	498	66	380	1	471	0	0	0
Future Volume (veh/h)	50	448	0	0	498	66	380	1	471	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1811	1811	0	0	1811	1811	1811	1811	1811			
Adj Flow Rate, veh/h	58	521	0	0	579	55	442	1	384			
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86			
Percent Heavy Veh, %	6	6	0	0	6	6	6	6	6			
Cap, veh/h	93	914	0	0	691	572	557	1	494			
Arrive On Green	0.05	0.50	0.00	0.00	0.38	0.38	0.32	0.32	0.32			
Sat Flow, veh/h	1725	1811	0	0	1811	1499	1725	4	1531			
Grp Volume(v), veh/h	58	521	0	0	579	55	442	0	385			
Grp Sat Flow(s),veh/h/ln	1725	1811	0	0	1811	1499	1725	0	1535			
Q Serve(g_s), s	1.8	10.8	0.0	0.0	15.6	1.3	12.6	0.0	12.2			
Cycle Q Clear(g_c), s	1.8	10.8	0.0	0.0	15.6	1.3	12.6	0.0	12.2			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	93	914	0	0	691	572	557	0	496			
V/C Ratio(X)	0.62	0.57	0.00	0.00	0.84	0.10	0.79	0.00	0.78			
Avail Cap(c_a), veh/h	481	914	0	0	842	696	802	0	714			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.9	9.3	0.0	0.0	15.1	10.7	16.6	0.0	16.5			
Incr Delay (d2), s/veh	6.7	1.1	0.0	0.0	7.0	0.1	3.6	0.0	3.4			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.8	3.2	0.0	0.0	6.4	0.4	4.3	0.0	3.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.6	10.3	0.0	0.0	22.1	10.8	20.2	0.0	19.9			
LnGrp LOS	C	B	A	A	C	B	C	A	B			
Approach Vol, veh/h		579			634			827				
Approach Delay, s/veh		12.5			21.1			20.0				
Approach LOS		B			C			C				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		31.7			6.6	25.1		22.1				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		12.8			3.8	17.6		14.6				
Green Ext Time (p_c), s		3.4			0.1	2.9		2.8				
Intersection Summary												
HCM 6th Ctrl Delay			18.2									
HCM 6th LOS			B									

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	0	5	0	0	0	7	102	0	0	196	61
Future Vol, veh/h	41	0	5	0	0	0	7	102	0	0	196	61
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	0	-	-	0	-	-	-	50	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	46	0	6	0	0	0	8	115	0	0	220	69

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	386	386	145	241	420	115	289	0	0	115	0	0
Stage 1	255	255	-	131	131	-	-	-	-	-	-	-
Stage 2	131	131	-	110	289	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	560	547	877	703	524	937	1271	-	-	1473	-	-
Stage 1	728	696	-	872	787	-	-	-	-	-	-	-
Stage 2	872	787	-	884	672	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	557	543	877	695	520	937	1271	-	-	1473	-	-
Mov Cap-2 Maneuver	557	543	-	695	520	-	-	-	-	-	-	-
Stage 1	723	696	-	866	781	-	-	-	-	-	-	-
Stage 2	866	781	-	878	672	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.7	0	0.5	0
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1271	-	-	557	877	-	-	1473	-	-
HCM Lane V/C Ratio	0.006	-	-	0.083	0.006	-	-	-	-	-
HCM Control Delay (s)	7.9	0	-	12	9.1	0	0	0	-	-
HCM Lane LOS	A	A	-	B	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	549	18	0	510	0	34
Future Vol, veh/h	549	18	0	510	0	34
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	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	617	20	0	573	0	38

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	627
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.319
Pot Cap-1 Maneuver	-	-	0	-	0	483
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	483
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	13.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	483	-	-	-
HCM Lane V/C Ratio	0.079	-	-	-
HCM Control Delay (s)	13.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.3	-	-	-



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	4	48	442	56	127	394	170	62	48	252	321	48
Future Volume (veh/h)	4	48	442	56	127	394	170	62	48	252	321	48
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00	1.00		0.98	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach			No			No			No			No
Adj Sat Flow, veh/h/ln		1841	1841	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h		56	514	46	148	458	139	72	56	201	373	56
Peak Hour Factor		0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %		4	4	4	4	4	4	4	4	4	4	4
Cap, veh/h		72	529	448	179	642	532	92	54	194	405	332
Arrive On Green		0.04	0.29	0.29	0.10	0.35	0.35	0.05	0.15	0.15	0.23	0.33
Sat Flow, veh/h		1753	1841	1560	1753	1841	1527	1753	352	1262	1753	999
Grp Volume(v), veh/h		56	514	46	148	458	139	72	0	257	373	0
Grp Sat Flow(s),veh/h/ln		1753	1841	1560	1753	1841	1527	1753	0	1614	1753	0
Q Serve(g_s), s		3.1	26.9	2.1	8.1	21.0	6.4	4.0	0.0	15.0	20.3	0.0
Cycle Q Clear(g_c), s		3.1	26.9	2.1	8.1	21.0	6.4	4.0	0.0	15.0	20.3	0.0
Prop In Lane		1.00		1.00	1.00		1.00	1.00		0.78	1.00	
Lane Grp Cap(c), veh/h		72	529	448	179	642	532	92	0	248	405	0
V/C Ratio(X)		0.78	0.97	0.10	0.83	0.71	0.26	0.78	0.00	1.04	0.92	0.00
Avail Cap(c_a), veh/h		360	529	448	360	642	532	270	0	248	539	0
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		46.3	34.4	25.5	42.9	27.5	22.8	45.6	0.0	41.2	36.6	0.0
Incr Delay (d2), s/veh		6.7	31.9	0.0	3.6	3.3	0.1	5.3	0.0	66.6	15.6	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.4	16.1	0.8	3.6	9.3	2.2	1.8	0.0	10.3	10.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh		53.0	66.2	25.6	46.5	30.8	22.9	50.9	0.0	107.8	52.2	0.0
LnGrp LOS		D	E	C	D	C	C	D	A	F	D	A
Approach Vol, veh/h			616			745			329			469
Approach Delay, s/veh			62.0			32.5			95.3			46.2
Approach LOS			E			C			F			D

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	33.7	10.1	38.7	9.0	39.7	27.5	21.3
Change Period (Y+Rc), s	5.0	* 5.7	5.0	6.3	5.0	* 5.7	5.0	6.3
Max Green Setting (Gmax), s	20.0	* 28	15.0	15.0	20.0	* 29	30.0	15.0
Max Q Clear Time (g_c+I1), s	10.1	28.9	6.0	5.9	5.1	23.0	22.3	17.0
Green Ext Time (p_c), s	0.1	0.0	0.0	0.1	0.0	1.2	0.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	53.5
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	48
Future Volume (veh/h)	48
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Work Zone On Approach	
Adj Sat Flow, veh/h/ln	1841
Adj Flow Rate, veh/h	40
Peak Hour Factor	0.86
Percent Heavy Veh, %	4
Cap, veh/h	237
Arrive On Green	0.33
Sat Flow, veh/h	713
Grp Volume(v), veh/h	96
Grp Sat Flow(s),veh/h/ln	1712
Q Serve(g_s), s	3.9
Cycle Q Clear(g_c), s	3.9
Prop In Lane	0.42
Lane Grp Cap(c), veh/h	569
V/C Ratio(X)	0.17
Avail Cap(c_a), veh/h	569
HCM Platoon Ratio	1.00
Upstream Filter(I)	1.00
Uniform Delay (d), s/veh	23.0
Incr Delay (d2), s/veh	0.1
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	1.5
Unsig. Movement Delay, s/veh	
LnGrp Delay(d),s/veh	23.1
LnGrp LOS	C
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer - Assigned Phs	

Intersection	
Int Delay, s/veh	9.5

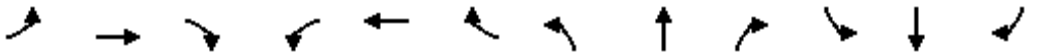
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	595	420	147	618	0	0	0	0	46	0	73
Future Vol, veh/h	0	595	420	147	618	0	0	0	0	46	0	73
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	50	-	-	-	-	-	-	-	25
Veh in Median Storage, #	-	0	-	-	0	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	0	692	488	171	719	0	0	0	0	53	0	85

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	-	0	0	1180	0	0	1997	2241	719
Stage 1	-	-	-	-	-	-	1061	1061	-
Stage 2	-	-	-	-	-	-	936	1180	-
Critical Hdwy	-	-	-	4.14	-	-	6.44	6.54	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-	5.44	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.44	5.54	-
Follow-up Hdwy	-	-	-	2.236	-	-	3.536	4.036	3.336
Pot Cap-1 Maneuver	0	-	-	585	-	0	65	42	425
Stage 1	0	-	-	-	-	0	330	298	-
Stage 2	0	-	-	-	-	0	378	262	-
Platoon blocked, %		-	-		-				
Mov Cap-1 Maneuver	-	-	-	585	-	-	~ 46	0	425
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 46	0	-
Stage 1	-	-	-	-	-	-	234	0	-
Stage 2	-	-	-	-	-	-	378	0	-

Approach	EB	WB	SB
HCM Control Delay, s	0	2.6	135.4
HCM LOS			F

Minor Lane/Major Mvmt	EBT	EBR	WBL	WBT	SBLn1	SBLn2
Capacity (veh/h)	-	-	585	-	46	425
HCM Lane V/C Ratio	-	-	0.292	-	1.163	0.2
HCM Control Delay (s)	-	-	13.7	-	$ 325.5	15.6
HCM Lane LOS	-	-	B	-	F	C
HCM 95th %tile Q(veh)	-	-	1.2	-	5	0.7

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	148	493	0	0	529	159	236	1	166	0	0	0
Future Volume (veh/h)	148	493	0	0	529	159	236	1	166	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1841	1841	1841			
Adj Flow Rate, veh/h	161	536	0	0	575	122	257	1	127			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	4	4	0	0	4	4	4	4	4			
Cap, veh/h	211	1099	0	0	733	607	359	2	317			
Arrive On Green	0.12	0.60	0.00	0.00	0.40	0.40	0.20	0.20	0.20			
Sat Flow, veh/h	1753	1841	0	0	1841	1524	1753	12	1550			
Grp Volume(v), veh/h	161	536	0	0	575	122	257	0	128			
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1524	1753	0	1562			
Q Serve(g_s), s	4.2	7.8	0.0	0.0	12.8	2.5	6.4	0.0	3.3			
Cycle Q Clear(g_c), s	4.2	7.8	0.0	0.0	12.8	2.5	6.4	0.0	3.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		0.99			
Lane Grp Cap(c), veh/h	211	1099	0	0	733	607	359	0	320			
V/C Ratio(X)	0.76	0.49	0.00	0.00	0.78	0.20	0.72	0.00	0.40			
Avail Cap(c_a), veh/h	560	1099	0	0	980	811	933	0	831			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	20.0	5.4	0.0	0.0	12.4	9.2	17.4	0.0	16.2			
Incr Delay (d2), s/veh	5.7	0.5	0.0	0.0	3.7	0.2	2.7	0.0	0.8			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.8	1.6	0.0	0.0	4.5	0.6	2.2	0.0	1.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.7	5.9	0.0	0.0	16.0	9.5	20.1	0.0	17.0			
LnGrp LOS	C	A	A	A	B	A	C	A	B			
Approach Vol, veh/h		697			697			385				
Approach Delay, s/veh		10.4			14.9			19.1				
Approach LOS		B			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		32.7			9.3	23.3		14.3				
Change Period (Y+Rc), s		4.6			3.7	4.6		4.7				
Max Green Setting (Gmax), s		25.0			15.0	25.0		25.0				
Max Q Clear Time (g_c+I1), s		9.8			6.2	14.8		8.4				
Green Ext Time (p_c), s		4.0			0.3	3.9		1.3				
Intersection Summary												
HCM 6th Ctrl Delay			14.0									
HCM 6th LOS			B									

HCM 6th Edition methodology supports speed limit in the range of 25 to 55 mph.

HCM 6th Edition methodology does not support Non-NEMA phasing.

MOVEMENT SUMMARY

Site: 1 [1. Ex+PP+P_AM]

Vaca Valley Parkway/E Monte Vista Avenue/Crocker Drive
Site Category: (None)
Roundabout

Movement Performance - Vehicles

Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance ft	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed mph
South: E Monte Vista Avenue												
3	L2	34	7.0	0.103	13.4	LOS B	0.4	11.6	0.58	0.73	0.58	36.5
8	T1	48	7.0	0.103	7.4	LOS A	0.4	11.6	0.58	0.73	0.58	36.6
18	R2	79	7.0	0.111	7.8	LOS A	0.5	12.2	0.59	0.76	0.59	36.8
Approach		161	7.0	0.111	8.8	LOS A	0.5	12.2	0.59	0.75	0.59	36.7
East: Vaca Valley Parkway												
1	L2	190	7.0	0.449	10.8	LOS B	2.8	75.0	0.41	0.56	0.41	35.6
6	T1	504	7.0	0.449	4.9	LOS A	2.8	75.2	0.41	0.54	0.41	36.0
16	R2	331	7.0	0.449	5.1	LOS A	2.8	75.2	0.41	0.51	0.41	35.5
Approach		1026	7.0	0.449	6.0	LOS A	2.8	75.2	0.41	0.54	0.41	35.8
North: Crocker Drive												
7	L2	169	7.0	0.207	12.7	LOS B	1.0	25.1	0.61	0.83	0.61	33.4
4	T1	47	7.0	0.128	7.7	LOS A	0.5	13.9	0.60	0.74	0.60	35.8
14	R2	30	7.0	0.128	7.9	LOS A	0.5	13.9	0.60	0.74	0.60	34.6
Approach		246	7.0	0.207	11.1	LOS B	1.0	25.1	0.61	0.81	0.61	33.9
West: Vaca Valley Parkway												
5u	U	4	7.0	0.349	14.5	LOS B	1.8	46.7	0.55	0.64	0.55	36.4
5	L2	56	7.0	0.349	12.0	LOS B	1.8	46.7	0.55	0.64	0.55	35.5
2	T1	543	7.0	0.349	6.0	LOS A	1.8	47.3	0.55	0.61	0.55	35.8
12	R2	52	7.0	0.349	6.1	LOS A	1.8	47.3	0.55	0.59	0.55	34.9
Approach		655	7.0	0.349	6.6	LOS A	1.8	47.3	0.55	0.61	0.55	35.7
All Vehicles		2088	7.0	0.449	7.0	LOS A	2.8	75.2	0.49	0.61	0.49	35.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 1 [1. Ex+PP+P_PM]

Vaca Valley Parkway/E Monte Vista Avenue/Crocker Drive
Site Category: (None)
Roundabout

Movement Performance - Vehicles

Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance ft	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed mph
South: E Monte Vista Avenue												
3	L2	72	4.0	0.235	15.7	LOS C	1.0	26.9	0.69	0.88	0.69	35.5
8	T1	56	4.0	0.235	9.7	LOS A	1.0	26.9	0.69	0.88	0.69	35.6
18	R2	293	4.0	0.389	8.9	LOS A	2.1	55.3	0.73	0.89	0.79	36.5
Approach		421	4.0	0.389	10.2	LOS B	2.1	55.3	0.72	0.89	0.76	36.2
East: Vaca Valley Parkway												
1	L2	148	4.0	0.355	10.8	LOS B	2.1	53.3	0.42	0.57	0.42	35.7
6	T1	458	4.0	0.355	4.9	LOS A	2.1	53.6	0.42	0.54	0.42	36.1
16	R2	198	4.0	0.355	5.1	LOS A	2.1	53.6	0.42	0.51	0.42	35.5
Approach		803	4.0	0.355	6.0	LOS A	2.1	53.6	0.42	0.54	0.42	35.9
North: Crocker Drive												
7	L2	373	4.0	0.422	12.9	LOS B	2.3	59.4	0.66	0.89	0.70	33.3
4	T1	56	4.0	0.203	8.1	LOS A	0.8	21.2	0.61	0.78	0.61	35.5
14	R2	56	4.0	0.203	8.3	LOS A	0.8	21.2	0.61	0.78	0.61	34.4
Approach		485	4.0	0.422	11.8	LOS B	2.3	59.4	0.65	0.87	0.68	33.7
West: Vaca Valley Parkway												
5u	U	5	4.0	0.373	15.2	LOS C	2.0	51.8	0.65	0.71	0.65	36.1
5	L2	56	4.0	0.373	12.8	LOS B	2.0	51.8	0.65	0.71	0.65	35.2
2	T1	514	4.0	0.373	6.7	LOS A	2.1	53.1	0.65	0.69	0.65	35.5
12	R2	65	4.0	0.373	6.8	LOS A	2.1	53.1	0.65	0.67	0.65	34.7
Approach		640	4.0	0.373	7.3	LOS A	2.1	53.1	0.65	0.69	0.65	35.4
All Vehicles		2349	4.0	0.422	8.3	LOS A	2.3	59.4	0.58	0.71	0.60	35.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Appendix G

Sewer Capacity Memorandum

UTILITIES DEPARTMENT

Memorandum

Date: June 28, 2019

To: File 420-28-2

Via: Curtis Paxton, Director of Utilities
Jeremy Craig, City Manager

From: Bonnie Robison, Associate Civil Engineer BR

Subject: Sewer Capacity Transfer for Vaca Valley Hotel Project

Pc: Aaron Busch, Barton Brierley, Shawn Cunningham, Justen Cole, Christina Castro, Angelica Garcia

The applicant for the proposed Vaca Valley Hotel project (Project 18-305) has requested an increase in wastewater capacity to be made available to the project. The proposed project site is located at the southwest corner of Vaca Valley Parkway and East Monte Vista Avenue in the northwestern portion of the City of Vacaville (City) as shown in Figure 1. The project site is currently a vacant 5.43 acre property (APN 133-210-280).

The project applicant, A2R Architects, is proposing to develop a 144 room, 84,970 square foot (sf), four-story Hyatt House Hotel, a 4,600 sf restaurant building, and an 8,000 sf two-story retail and office building. The project also includes a request to subdivide the site into three parcels: Parcel 1 (hotel), 3.26 acres; Parcel 2 (restaurant), 1.34 acres; and Parcel 3 (retail/office), 0.83 acre.

The project site falls within the boundaries of the 2008 Northeast Sector Sewer Master Plan (NESSMP). In accordance with the NESSMP, the proposed project property has an allocation of wastewater generation up to 2,000 gallons per day (gpd) per acre for average dry weather flow (ADWF), for a total of 10,860 gpd. Based on land use and standard demand factors, the project is projected to generate 40,520 gpd, significantly greater than the planned capacity (Table 1). The attached technical memo includes detailed calculations for the projected wastewater flow and identifies the increase in capacity required to support this project. The technical memo also includes an evaluation of the potential impact of this increase in capacity on the downstream sewer system, and identifies that the sewer system has adequate capacity to support this increase.

Table 1. Sewer Capacity Summary. All values are ADWF.

Site	Planned Capacity (gpd)	Projected Capacity (gpd)	Additional Capacity Requested (gpd)
Parcel 1	6,520	32,240	25,720
Parcel 2	2,680	6,700	4,020
Parcel 3	1,660	1,580	0
Total	**10,860**	**40,520**	**29,740**

The NESSMP included a set amount of unallocated sewer capacity (Point Load Capacity) to allow the City to provide additional capacity to one or more large water users on a case-by-case basis. Point Load Capacity can be allocated to parcels tributary to the East Monte Vista Trunk Sewer and Horse Creek Lift Station, as long as pipeline capacity is available. Any allocation of the Point Load Capacity is subject to Utilities Department and City Manager approval. Allocating sewer capacity to a property does not exempt the project from any sewer connection fees.

Currently, a total of 91,854 gpd is available for allocation: 25,674 gpd that has never been allocated, and 66,180 gpd of Special Use Capacity originally allocated for the Vaca Valley Business Park. This Special Use Capacity became available for the City to reallocate following the expiration of the Vaca Valley Business Park Sewer Capacity and Exchange Agreement in January 2010.

In response to the request for additional capacity from the project applicant, the City shall reallocate sewer capacity from the Point Load Capacity to the newly created parcels as follows:

- 25,720 gpd shall be allocated to Parcel 1
- 4,020 gpd shall be allocated to Parcel 2

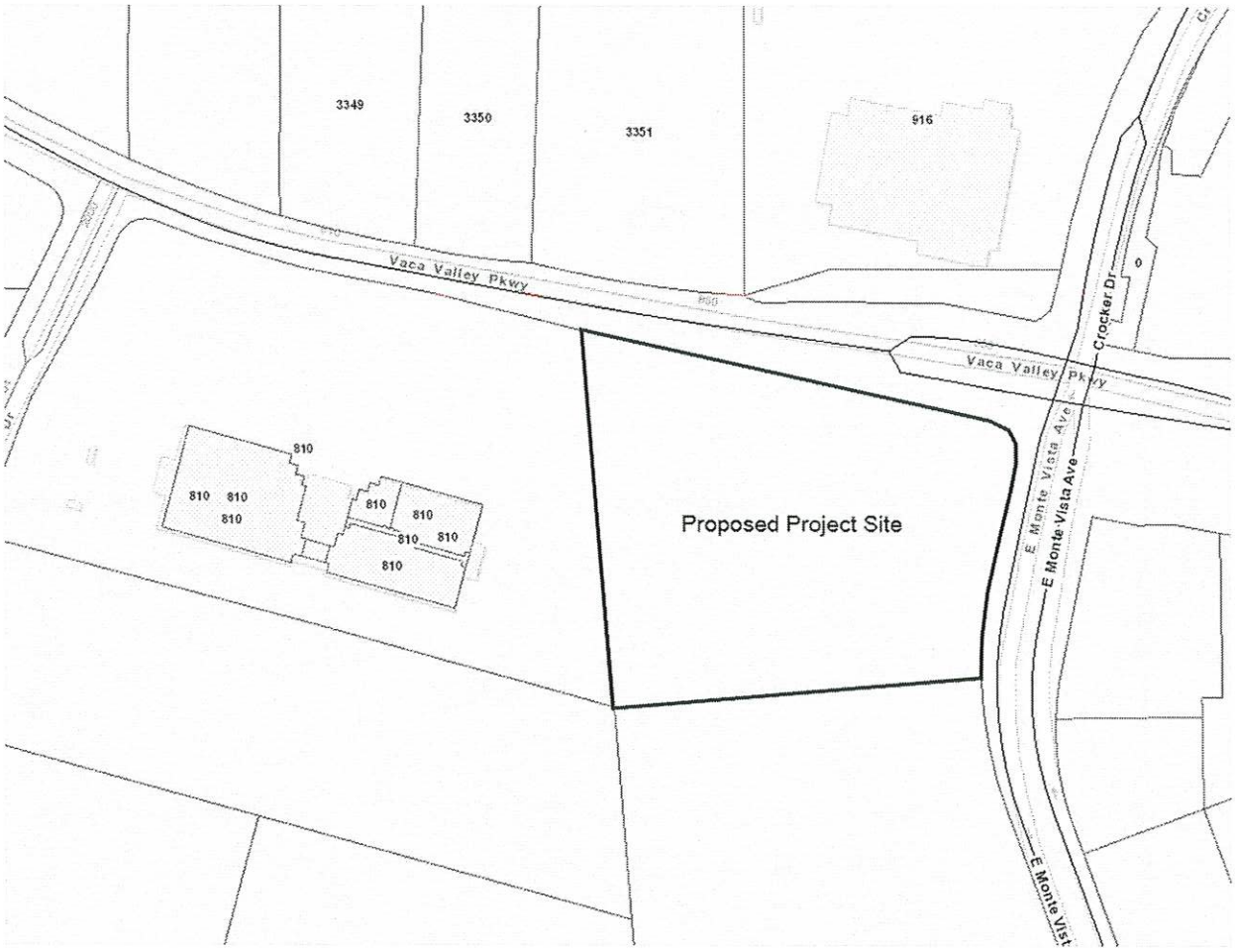
Approved by:

Curtis D. Paxton, Director of Utilities — Date: 06/28/2019

Jeremy Craig, City Manager — Date: 07/09/19

Attachments:
Figure 1 Site Location
Addendum #1 to Technical Memorandum Dated January 24, 2019
Technical Memo "Proposed Hotel at Vaca Valley Parkway and E. Monte Vista Avenue"

Figure 1
Site Location



PHILLIPPI ENGINEERING, INC.
CIVIL ENGINEERING - LAND SURVEYING

ADDENDUM #1 TO TECHNICAL MEMORANDUM Dated January 24, 2019

DATE: May 10, 2019



TO: Bonnie Robison, City of Vacaville

C.C. Justen Cole and Angelica Garcia, City of Vacaville

PREPARED BY: Thomas A. Phillippi, RCE #32067

SUBJECT: **Proposed Hotel at Vaca Valley Parkway and E. Monte Vista Avenue**

This Addendum has been prepared to amend the attached Technical Memorandum prepared by West Yost Associates dated January 24, 2019, to reflect parcelization of the property into 3 lots.

The following paragraph replaces the first paragraph under the title *ESTIMATED PROJECT FLOW GENERATION* (changes are underlined and **bold)**:

The proposed Project is intended to be constructed on the southwest corner of the intersection of Vaca Valley Parkway and E. Monte Vista Avenue. This location corresponds to Assessor's parcel number (APN) 0133-210-280. The currently undeveloped parcel is ***5.43*** *acres in area and a* ***General Plan*** *land use designation of* ***General Commercial*** *for both the existing and buildout development conditions.* ***The 5.43 acre parcel will be divided into three parcels: Parcel 1, the Hotel parcel, is 3.26 acres; Parcel 2, the Restaurant parcel, is 1.34 acres; and, Parcel 3, the Retail/Office parcel, is 0.83 acres.***

The following paragraph and Table shall replace the first paragraph on the top of page 2 and Table 1 of the original memo (changes are underlined and **bold)**:

The proposed Project is expected to consist of a combination of a hotel, restaurant, and retail/office space. For sizing of local sewers where the project floor-area (i.e. the total floor divided by the area of the land use parcel) is greater that 0.3, City standards requires the use of flow factors based on floor area square footage (sq-ft) rather than parcel area. ***The proposed Project consists of 3 parcels: Parcel 1, the Hotel parcel, is 3.26 acres and has a floor area ratio of 0.59; Parcel 2, the Restaurant parcel, is 1.34 acres and has a floor area ratio of 0.08; and, Parcel 3, the Retail/Office parcel, is 0.83 acres and has a floor area ratio of 0.22. The total acres of the project is 5.43 acres and the overall floor area ratio is approximately 0.4.*** *Accordingly, the ADWF generation for the proposed Project is shown in Table 1.* ***For the Hotel parcel, the gpd/ft^2 rate is used, which is 0.383, because the F.A.R. exceeds 0.3. The Restaurant parcel and the Retail/Office parcel both have a F.A.R. less than 0.3 and therefore the gpd/acre rate is used which is 5,000 gpd/acre and 1,900 gpd/acre respectively****. As indicated in the table, an ADWF*

*generation of approximately **40,500 gpd** is estimated, with an associated SPF of approximately **101,300 gpd**, thus representing an increase of approximately **75,800 gpd, or 0.076** million gallons per day (mgd), over the modeled peak flow.*

Table 1. Floor Area-Based ADWF Calculations

Building Use	Parcel Size,	Floor Area, sq-ft[a]	Floor Area Ratio	Flow Factor, gpd/ac[b]	Flow Factor, gpd/sq-ft[b]	ADWF, gpd
Parcel 1 -Hotel	**3.26 Ac.**	**84,175**	**0.59**		0.383	**32,240**
Parcel 2 - Restaurant	**1.34 Ac.**	4,600	**0.08**	**5,000**		**6,700**
Parcel 3 - Retail/Office	**0.83 Ac.**	8,000	**0.22**	**1,900**		**1,580**
Total	**5.43 Ac.**	**95,656**	**0.40**		---	**40,520**

(a) Source: City Utilities Department
(b) Source: Sanitary Sewer System Design Standards, February 2007

In the Conclusions section of the original memorandum, the memo indicates that downstream system has adequate capacity when future improvements are implemented with the only exception being the downstream end of the Elmira Road trunk sewer. The proposed increased as reported previously was "approximately 0.2 percent of the allowable capacity" (0.061mgd/39.33mgd = 0.00155 or 0.155 percent). The new calculations result in an expected increase of 0.076mgd which is **still below 0.2 percent of the allowable capacity** (0.076mgd/39.33mgd = 0.00193 or 0.193 percent).

For the DIF 38A line the total increase is still less than 1% (0.076mgd/31.90mgd = 0.0024 or 0.24%).

The concluding paragraph of the memo should be replaced with the following paragraph (changes are underlined and **bold**):

*As described above, the Project is expected to generate more than 2,000 gpd/acre. Per the 2008 NESSMP, this higher flow will require an allocation of either a Point Load capacity of Area B Released Capacity, as defined in that document. **The allowable flow for Parcel 1, based on 2,000 gpd/acre, is 6,520 gpd ADWF. Therefore, the required allocation for Parcel 1 is 25,720 gpd (32,240gpd – 6,520gpd). The allowable flow for Parcel 2 is 2,680 gpd and the required allocation is 4,020 gpd (6,700 gpd – 2,680 gpd). Lastly, the allowable flow for Parcel 3 is 1,660 gpd and since this exceeds the anticipated flow no additional allocation is required.***

WEST YOST ASSOCIATES

Consulting Engineers

TECHNICAL MEMORANDUM



DATE: January 24, 2019

Project No.: 001-60-18-78

SENT VIA: EMAIL

TO: Tom Phillippi, Phillippi Engineering, Inc.

CC: Justen Cole, City of Vacaville

FROM: Chris Malone, PE, RCE #51009

REVIEWED BY: Jeff Pelz, PE, RCE #46088

SUBJECT: Proposed Hotel at Vaca Valley Parkway and E. Monte Vista Avenue

The purpose of this technical memorandum (TM) is to provide an assessment of the possible impacts of a proposed hotel (Project) at the intersection of Vaca Valley Parkway and E. Monte Vista Avenue. The following topics are discussed in this TM:

- Estimated Project Flow Generation
- Available System Capacity
- Conclusions

ESTIMATED PROJECT FLOW GENERATION

The proposed Project is intended to be constructed on the southwest corner of the intersection of Vaca Valley Parkway and E. Monte Vista Avenue. This location corresponds to Assessor's parcel number (APN) 0133-210-280. This currently undeveloped parcel is 5.11 acres in area and has a land use designation of Retail Service for both existing and buildout development conditions.

The April 2018 City of Vacaville (City) Wastewater Facilities Master Plan (Master Plan) documents the most recently completed modeling analysis of the City's wastewater collection and treatment facilities, including those that would serve the proposed Project. In accordance with the 2008 Northeast Sector Sewer Master Plan (NESSMP), the Project parcel is assumed to generate an average dry weather flow (ADWF) rate of 2,000 gallons per day (gpd) per acre for buildout land use conditions. Accordingly, the collection system model assigns an assumed buildout ADWF of approximately 10,200 gpd to the parcel in question. In general, for individual discharges, a peaking factor of 2.5 is typically assumed to assess the sanitary peak flow (SPF) impacts on the collection system. The resultant buildout SPF is therefore estimated to be approximately 25,500 gpd.

The proposed Project is expected to consist of a combination of a hotel, restaurant, and retail/office space. For sizing of local sewers where the project floor-area ratio (i.e., the total floor area divided by the area of the land use parcel) is greater than 0.3, City standards requires the use of flow factors based on floor area square footage (sq-ft) rather than parcel area. The proposed Project has a floor-area ratio of approximately 0.4. Accordingly, the ADWF generation for the proposed Project is shown in Table 1. As indicated in the table, an ADWF generation of approximately 34,700 gpd is estimated, with an associated SPF of approximately 86,800 gpd, thus representing an increase of approximately 61,300 gpd, or 0.061 million gallons per day (mgd), over the modeled buildout peak flow.

Table 1. Floor Area-Based ADWF Calculations

Building Use	Floor Area, sq-ft[a]	Flow Factor,gpd/sq-ft[b]	ADWF, gpd
Hotel	83,056	0.383	31,810
Restaurant	4,600	0.383	1,762
Retail/Office	8,000	0.145	1,160
Total	**95,656**	---	**34,732**

(a) Source: City Utilities Department
(b) Source: Sanitary Sewer System Design Standards, February 2007

AVAILABLE SYSTEM CAPACITY

For this evaluation, it is assumed that the proposed Project would discharge directly to the trunk sewer flowing south along E. Monte Vista Avenue into the Horse Creek Lift Station (LS). Thereafter, the flow path crosses Interstate-80, flowing south into the parallel sewers along Nut Tree Road, Cooper School Road, Ulatis Drive, and Leisure Town Road, and then into the 54-inch diameter Elmira Road trunk sewer that flows directly into the Easterly Wastewater Treatment Plant (WWTP). The parallel sewers on Leisure Town Road are planned to be replaced in the near future as part of the Developer Impact Fee (DIF) 38A trunk sewer upsizing project, which is currently in the predesign stage.

According to the Master Plan buildout modeling analysis, the lines in question are expected to have the buildout design flows indicated in Table 2. The buildout capacity deficiency at Horse Creek LS is based on the existing pumping capacity, which is planned to be significantly expanded in the future as the need arises. The gravity sewer deficiency between Nut Tree Road and Ulatis Drive will be addressed by the planed DIF 37 trunk sewer replacement, which has not been scheduled but which is expected to be implemented in the future as the need arises. The slight deficiency at the downstream end of the Elmira Road trunk sewer between Elmira and the WWTP is not expected to be a concern in the absence of major, currently-unanticipated flow inputs. Finally, any capacity limits at the WWTP will, if necessary, be addressed through a future WWTP expansion.

Table 2. Available System Capacity – Buildout Flow Conditions

Trunk Sewer	Diameter, inches	Length, feet	Design Flow, mgd	Allowable Capacity, mgd	Available Capacity, mgd
E. Monte Vista Avenue	21	1,100	2.11	3.06	0.95
E. Monte Vista Avenue	27	6,000	6.65	8.59	1.95
Horse Creek LS	--	--	6.65	2.34	(4.31)
Orange Drive	36	2,000	12.87	14.97	2.10
Nut Tree Road	30	1,000	13.14	9.58	(3.56)
Nut Tree Road (parallel)	24/21	1,900	14.94	9.75	(5.20)
Nut Tree Road	30	700	14.97	7.19	(7.78)
Cooper School Road (parallel)	24/21	1,800	15.25	9.73	(5.52)
Ulatis Drive Road (parallel)	24/21	3,100	15.83	10.50	(5.33)
DIF 38A[a]	48	2,400	24.49	31.90	7.42
Leisure Town Road to Elmira	54	7,700	40.65	46.34	5.69
Elmira to WWTP	54	1,400	40.84	39.33	(1.51)

(a) The existing system along this reach consists of parallel sewers with a combined allowable capacity of 11.6 mgd.

CONCLUSIONS

For all downstream facilities except one, the system either has adequate capacity to accommodate the expected flow increase attributable to the Project or will have adequate capacity when planned future improvements are implemented. The only exception is the downstream end of the Elmira Road trunk sewer; however, in that case, the expected flow increase attributable to the Project represents approximately 0.2 percent of the allowable capacity of that segment and is therefore considered inconsequential. Moreover, the expected flow increase attributable to the Project is nowhere near large enough to trigger any of the planned future improvements (Horse Creek LS, DIF 37, or Easterly WWTP). Accordingly, it is the conclusion of this analysis that the City's wastewater collection and treatment facilities have adequate capacity to accommodate the proposed Project.

It is assumed DIF 38A will be completed prior to the Project. However, the Project represents less than 1 percent of the allowable capacity in the existing trunk sewer. Therefore, the Project flow increase is considered inconsequential. Nevertheless, it is recommended that DIF 38A proceed as currently scheduled to address cumulative impacts of near-term development, including the Project.

As described above, the Project is expected to generate more than 2,000 gpd/acre. Per the 2008 NESSMP, this higher flow will require an allocation of either the Point Load capacity or Area B Released Capacity, as defined in that document. The required allocation amount is 24,500 gpd, which represents the difference between the estimated Project ADWF shown in Table 1 above, and the Master Plan modeled ADWF based on 2,000 gpd/acre described above.