CEQA TECHNICAL REPORTS – VISTA MELROSE RESIDENTIAL PROJECT

- APPENDIX A - AIR QUALITY AND GREENHOUSE GASE TECHNICAL REPORT
- APPENDIX B - BIOLOGICAL RESOURCES REPORT
- APPENDIX C – HISTORICAL RESOURCES TECHNICAL REPORT
- APPENDIX D – CULTURAL RESOURCES REPORT
- APPENDIX E – GEOTECHNICAL AND INFILTRATION EVALUATION
- APPENDIX F – PHASE I ENVIRONMENTAL ASSESSMENT
- APPENDIX G – HYDROLOGY STUDY
- APPENXID H – STORMWATER QUALITY MANAGEMENT PLAN (SWQMP)
- APPENDIX I – NOISE TECHNICAL REPORT
- APPENDIX J1 – LOCAL TRANSPORTATION ASSESSMENT (LTA)
- APPENDIX J2 – VEHICLE MILES TRAVELED STUDY (VMT)
- APPENDIX K – MITIGATION, MONITORING, AND REPORTING PROGRAM (MMRP)

Appendix A

Air Quality and Greenhouse Gas Technical Reports

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition -

Grading - Given on data request.

Architectural Coating - Changed VOC limits to meet SDAPCD thresholds.

Woodstoves - One gas fireplace per home given in data request.

Area Coating - Changed VOC limits to meet SDAPCD thresholds.

Area Mitigation - Changed VOC limits to meet SDAPCD thresholds.

Vehicle Trips - Per traffic report, assuming 0 trips for the open space and 10 daily trips per dwelling unit.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	230.00	270.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	21.00
tblFireplaces	NumberGas	18.70	34.00
tblFireplaces	NumberWood	11.90	0.00
tblGrading	MaterialExported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	42,350.00	42,347.00
tblLandUse	LandUseSquareFeet	12,632.40	12,526.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	61,200.00	84,000.00
tblLandUse	LotAcreage	11.04	4.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	199.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	13.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	0.2006	1.9925	1.9219	4.2000e-003	0.4216	0.0818	0.5034	0.1795	0.0758	0.2553	0.0000	372.9329	372.9329	0.0958	7.2100e-003	377.4766
2025	0.4205	1.3532	1.7557	3.3100e-003	0.0398	0.0549	0.0947	0.0108	0.0516	0.0625	0.0000	289.7475	289.7475	0.0573	4.6900e-003	292.5778
Maximum	**0.4205**	**1.9925**	**1.9219**	**4.2000e-003**	**0.4216**	**0.0818**	**0.5034**	**0.1795**	**0.0758**	**0.2553**	**0.0000**	**372.9329**	**372.9329**	**0.0958**	**7.2100e-003**	**377.4766**

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					
2024	0.2006	1.9925	1.9219	4.2000e-003	0.4216	0.0818	0.5034	0.1795	0.0758	0.2553	0.0000	372.9325	372.9325	0.0958	7.2100e-003	377.4762
2025	0.4205	1.3532	1.7557	3.3100e-003	0.0398	0.0549	0.0947	0.0108	0.0516	0.0625	0.0000	289.7472	289.7472	0.0573	4.6900e-003	292.5776
Maximum	**0.4205**	**1.9925**	**1.9219**	**4.2000e-003**	**0.4216**	**0.0818**	**0.5034**	**0.1795**	**0.0758**	**0.2553**	**0.0000**	**372.9325**	**372.9325**	**0.0958**	**7.2100e-003**	**377.4762**

	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**2-1-2024**	**4-30-2024**	1.0486	1.0486
2	**5-1-2024**	**7-31-2024**	0.3994	0.3994
3	**8-1-2024**	**10-31-2024**	0.3955	0.3955
4	**11-1-2024**	**1-31-2025**	0.5042	0.5042
5	**2-1-2025**	**4-30-2025**	0.4642	0.4642
6	**5-1-2025**	**7-31-2025**	0.4790	0.4790
7	**8-1-2025**	**9-30-2025**	0.3176	0.3176
		Highest	1.0486	1.0486

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	0.4028	0.0312	0.5771	1.1900e-003		0.0546	0.0546		0.0546	0.0546	6.8726	27.1932	34.0659	0.0330	4.9000e-004	35.0381
Energy	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	104.3983	104.3983	4.7400e-003	1.2000e-003	104.8747
Mobile	0.1644	0.1829	1.5416	3.2900e-003	0.3631	2.5500e-003	0.3657	0.0969	2.3800e-003	0.0993	0.0000	303.9846	303.9846	0.0217	0.0138	308.6374
Waste						0.0000	0.0000		0.0000	0.0000	8.0770	0.0000	8.0770	0.4773	0.0000	20.0105
Water						0.0000	0.0000		0.0000	0.0000	0.7028	11.8055	12.5083	0.0729	1.7900e-003	14.8649
Total	**0.5711**	**0.2478**	**2.1331**	**4.7000e-003**	**0.3631**	**0.0599**	**0.4230**	**0.0969**	**0.0597**	**0.1566**	**15.6524**	**447.3816**	**463.0340**	**0.6097**	**0.0173**	**483.4255**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4028	0.0312	0.5771	1.1900e-003		0.0546	0.0546		0.0546	0.0546	6.8726	27.1932	34.0659	0.0330	4.9000e-004	35.0381
Energy	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	104.3983	104.3983	4.7400e-003	1.2000e-003	104.8747
Mobile	0.1644	0.1829	1.5416	3.2900e-003	0.3631	2.5500e-003	0.3657	0.0969	2.3800e-003	0.0993	0.0000	303.9846	303.9846	0.0217	0.0138	308.6374
Waste						0.0000	0.0000		0.0000	0.0000	8.0770	0.0000	8.0770	0.4773	0.0000	20.0105
Water						0.0000	0.0000		0.0000	0.0000	0.7028	11.8055	12.5083	0.0729	1.7900e-003	14.8649
Total	**0.5711**	**0.2478**	**2.1331**	**4.7000e-003**	**0.3631**	**0.0599**	**0.4230**	**0.0969**	**0.0597**	**0.1566**	**15.6524**	**447.3816**	**463.0340**	**0.6097**	**0.0173**	**483.4255**

	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	Demolition	Demolition	2/1/2024	2/29/2024	5	21	
2	Site Preparation	Site Preparation	2/16/2024	2/29/2024	5	10	
3	Grading	Grading	3/1/2024	5/31/2024	5	66	

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4	Utilities	Grading	6/1/2024	8/30/2024	5	65	
5	Paving	Paving	9/1/2024	9/30/2024	5	21	
6	Building Construction	Building Construction	10/1/2024	10/13/2025	5	270	
7	Architectural Coating	Architectural Coating	10/14/2025	11/10/2025	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 132

Acres of Paving: 0.97

Residential Indoor: 170,100; Residential Outdoor: 56,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,541 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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	3	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
Utilities	Excavators	2	8.00	158	0.38
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	3	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

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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
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
Demolition	6	16.00	4.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	750.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2024

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					0.0218	0.0000	0.0218	3.3000e-003	0.0000	3.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2192	0.2069	4.1000e-004		0.0101	0.0101		9.3700e-003	9.3700e-003	0.0000	35.6959	35.6959	9.9900e-003	0.0000	35.9455

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Total	**0.0236**	**0.2192**	**0.2069**	**4.1000e-004**	**0.0218**	**0.0101**	**0.0319**	**3.3000e-003**	**9.3700e-003**	**0.0127**	**0.0000**	**35.6959**	**35.6959**	**9.9900e-003**	**0.0000**	**35.9455**

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	2.2000e-004	0.0135	3.6600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.8959	5.8959	3.1000e-004	9.4000e-004	6.1833
Vendor	5.0000e-005	1.8500e-003	6.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8281	0.8281	3.0000e-005	1.2000e-004	0.8645
Worker	4.3000e-004	2.8000e-004	3.5800e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0312	1.0312	3.0000e-005	3.0000e-005	1.0402
Total	**7.0000e-004**	**0.0156**	**7.8800e-003**	**8.0000e-005**	**3.3400e-003**	**1.3000e-004**	**3.4600e-003**	**9.1000e-004**	**1.3000e-004**	**1.0300e-003**	**0.0000**	**7.7551**	**7.7551**	**3.7000e-004**	**1.0900e-003**	**8.0879**

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					0.0218	0.0000	0.0218	3.3000e-003	0.0000	3.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2192	0.2069	4.1000e-004		0.0101	0.0101		9.3700e-003	9.3700e-003	0.0000	35.6958	35.6958	9.9900e-003	0.0000	35.9455

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Total	**0.0236**	**0.2192**	**0.2069**	**4.1000e-004**	**0.0218**	**0.0101**	**0.0319**	**3.3000e-003**	**9.3700e-003**	**0.0127**	**0.0000**	**35.6958**	**35.6958**	**9.9900e-003**	**0.0000**	**35.9455**

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	2.2000e-004	0.0135	3.6600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.8959	5.8959	3.1000e-004	9.4000e-004	6.1833
Vendor	5.0000e-005	1.8500e-003	6.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8281	0.8281	3.0000e-005	1.2000e-004	0.8645
Worker	4.3000e-004	2.8000e-004	3.5800e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0312	1.0312	3.0000e-005	3.0000e-005	1.0402
Total	**7.0000e-004**	**0.0156**	**7.8800e-003**	**8.0000e-005**	**3.3400e-003**	**1.3000e-004**	**3.4600e-003**	**9.1000e-004**	**1.3000e-004**	**1.0300e-003**	**0.0000**	**7.7551**	**7.7551**	**3.7000e-004**	**1.0900e-003**	**8.0879**

3.3 Site Preparation - 2024

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1359	0.0917	1.9000e-004		6.1500e-003	6.1500e-003		5.6600e-003	5.6600e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638

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Total	**0.0133**	**0.1359**	**0.0917**	**1.9000e-004**	**0.0983**	**6.1500e-003**	**0.1044**	**0.0505**	**5.6600e-003**	**0.0562**	**0.0000**	**16.7285**	**16.7285**	**5.4100e-003**	**0.0000**	**16.8638**

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	2.0000e-005	8.8000e-004	3.1000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3943	0.3943	1.0000e-005	6.0000e-005	0.4117
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5524	0.5524	2.0000e-005	1.0000e-005	0.5572
Total	**2.5000e-004**	**1.0300e-003**	**2.2300e-003**	**1.0000e-005**	**8.5000e-004**	**1.0000e-005**	**8.7000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.9467**	**0.9467**	**3.0000e-005**	**7.0000e-005**	**0.9689**

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1359	0.0917	1.9000e-004		6.1500e-003	6.1500e-003		5.6500e-003	5.6500e-003	0.0000	16.7285	16.7285	5.4100e-003	0.0000	16.8638

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0133**	**0.1359**	**0.0917**	**1.9000e-004**	**0.0983**	**6.1500e-003**	**0.1044**	**0.0505**	**5.6500e-003**	**0.0562**	**0.0000**	**16.7285**	**16.7285**	**5.4100e-003**	**0.0000**	**16.8638**

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	2.0000e-005	8.8000e-004	3.1000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3943	0.3943	1.0000e-005	6.0000e-005	0.4117
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5524	0.5524	2.0000e-005	1.0000e-005	0.5572
Total	**2.5000e-004**	**1.0300e-003**	**2.2300e-003**	**1.0000e-005**	**8.5000e-004**	**1.0000e-005**	**8.7000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.9467**	**0.9467**	**3.0000e-005**	**7.0000e-005**	**0.9689**

3.4 Grading - 2024

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					0.2691	0.0000	0.2691	0.1169	0.0000	0.1169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0782	0.8363	0.5964	1.4200e-003		0.0328	0.0328		0.0302	0.0302	0.0000	124.3608	124.3608	0.0402	0.0000	125.3663

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0782**	**0.8363**	**0.5964**	**1.4200e-003**	**0.2691**	**0.0328**	**0.3019**	**0.1169**	**0.0302**	**0.1470**	**0.0000**	**124.3608**	**124.3608**	**0.0402**	**0.0000**	**125.3663**

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	8.2000e-004	0.0505	0.0137	2.2000e-004	6.4200e-003	4.2000e-004	6.8400e-003	1.7600e-003	4.0000e-004	2.1700e-003	0.0000	22.1094	22.1094	1.1700e-003	3.5200e-003	23.1872
Vendor	1.5000e-004	5.8200e-003	2.0200e-003	3.0000e-005	8.8000e-004	3.0000e-005	9.1000e-004	2.5000e-004	3.0000e-005	2.9000e-004	0.0000	2.6025	2.6025	8.0000e-005	3.8000e-004	2.7169
Worker	1.3400e-003	8.9000e-004	0.0112	4.0000e-005	4.2300e-003	2.0000e-005	4.2600e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	3.2408	3.2408	9.0000e-005	9.0000e-005	3.2690
Total	**2.3100e-003**	**0.0572**	**0.0270**	**2.9000e-004**	**0.0115**	**4.7000e-004**	**0.0120**	**3.1400e-003**	**4.5000e-004**	**3.6100e-003**	**0.0000**	**27.9526**	**27.9526**	**1.3400e-003**	**3.9900e-003**	**29.1731**

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					0.2691	0.0000	0.2691	0.1169	0.0000	0.1169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0782	0.8363	0.5964	1.4200e-003		0.0328	0.0328		0.0302	0.0302	0.0000	124.3606	124.3606	0.0402	0.0000	125.3661

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0782**	**0.8363**	**0.5964**	**1.4200e-003**	**0.2691**	**0.0328**	**0.3019**	**0.1169**	**0.0302**	**0.1470**	**0.0000**	**124.3606**	**124.3606**	**0.0402**	**0.0000**	**125.3661**

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	8.2000e-004	0.0505	0.0137	2.2000e-004	6.4200e-003	4.2000e-004	6.8400e-003	1.7600e-003	4.0000e-004	2.1700e-003	0.0000	22.1094	22.1094	1.1700e-003	3.5200e-003	23.1872
Vendor	1.5000e-004	5.8200e-003	2.0200e-003	3.0000e-005	8.8000e-004	3.0000e-005	9.1000e-004	2.5000e-004	3.0000e-005	2.9000e-004	0.0000	2.6025	2.6025	8.0000e-005	3.8000e-004	2.7169
Worker	1.3400e-003	8.9000e-004	0.0112	4.0000e-005	4.2300e-003	2.0000e-005	4.2600e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	3.2408	3.2408	9.0000e-005	9.0000e-005	3.2690
Total	**2.3100e-003**	**0.0572**	**0.0270**	**2.9000e-004**	**0.0115**	**4.7000e-004**	**0.0120**	**3.1400e-003**	**4.5000e-004**	**3.6100e-003**	**0.0000**	**27.9526**	**27.9526**	**1.3400e-003**	**3.9900e-003**	**29.1731**

3.5 Utilities - 2024

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.0912	0.2122	3.4000e-004		4.4900e-003	4.4900e-003		4.1300e-003	4.1300e-003	0.0000	29.4992	29.4992	9.5400e-003	0.0000	29.7377

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0117**	**0.0912**	**0.2122**	**3.4000e-004**	**0.0000**	**4.4900e-003**	**4.4900e-003**	**0.0000**	**4.1300e-003**	**4.1300e-003**	**0.0000**	**29.4992**	**29.4992**	**9.5400e-003**	**0.0000**	**29.7377**

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	1.5000e-004	5.7300e-003	1.9900e-003	3.0000e-005	8.6000e-004	3.0000e-005	9.0000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5630	2.5630	8.0000e-005	3.7000e-004	2.6757
Worker	5.0000e-004	3.3000e-004	4.1500e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.1969	1.1969	3.0000e-005	3.0000e-005	1.2073
Total	**6.5000e-004**	**6.0600e-003**	**6.1400e-003**	**4.0000e-005**	**2.4200e-003**	**4.0000e-005**	**2.4700e-003**	**6.7000e-004**	**4.0000e-005**	**7.0000e-004**	**0.0000**	**3.7599**	**3.7599**	**1.1000e-004**	**4.0000e-004**	**3.8830**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.0912	0.2122	3.4000e-004		4.4900e-003	4.4900e-003		4.1300e-003	4.1300e-003	0.0000	29.4991	29.4991	9.5400e-003	0.0000	29.7376

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0117**	**0.0912**	**0.2122**	**3.4000e-004**	**0.0000**	**4.4900e-003**	**4.4900e-003**	**0.0000**	**4.1300e-003**	**4.1300e-003**	**0.0000**	**29.4991**	**29.4991**	**9.5400e-003**	**0.0000**	**29.7376**

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	1.5000e-004	5.7300e-003	1.9900e-003	3.0000e-005	8.6000e-004	3.0000e-005	9.0000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5630	2.5630	8.0000e-005	3.7000e-004	2.6757
Worker	5.0000e-004	3.3000e-004	4.1500e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.1969	1.1969	3.0000e-005	3.0000e-005	1.2073
Total	**6.5000e-004**	**6.0600e-003**	**6.1400e-003**	**4.0000e-005**	**2.4200e-003**	**4.0000e-005**	**2.4700e-003**	**6.7000e-004**	**4.0000e-005**	**7.0000e-004**	**0.0000**	**3.7599**	**3.7599**	**1.1000e-004**	**4.0000e-004**	**3.8830**

3.6 Paving - 2024

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	0.0160	0.1619	0.2013	3.6000e-004		7.1900e-003	7.1900e-003		6.6100e-003	6.6100e-003	0.0000	31.4646	31.4646	0.0102	0.0000	31.7190
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0173**	**0.1619**	**0.2013**	**3.6000e-004**		**7.1900e-003**	**7.1900e-003**		**6.6100e-003**	**6.6100e-003**	**0.0000**	**31.4646**	**31.4646**	**0.0102**	**0.0000**	**31.7190**

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	5.0000e-005	1.8500e-003	6.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8281	0.8281	3.0000e-005	1.2000e-004	0.8645
Worker	4.3000e-004	2.8000e-004	3.5800e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0312	1.0312	3.0000e-005	3.0000e-005	1.0402
Total	**4.8000e-004**	**2.1300e-003**	**4.2200e-003**	**2.0000e-005**	**1.6300e-003**	**2.0000e-005**	**1.6400e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.8592**	**1.8592**	**6.0000e-005**	**1.5000e-004**	**1.9046**

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	0.0160	0.1619	0.2013	3.6000e-004		7.1900e-003	7.1900e-003		6.6100e-003	6.6100e-003	0.0000	31.4646	31.4646	0.0102	0.0000	31.7190
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0173**	**0.1619**	**0.2013**	**3.6000e-004**		**7.1900e-003**	**7.1900e-003**		**6.6100e-003**	**6.6100e-003**	**0.0000**	**31.4646**	**31.4646**	**0.0102**	**0.0000**	**31.7190**

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	5.0000e-005	1.8500e-003	6.4000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8281	0.8281	3.0000e-005	1.2000e-004	0.8645
Worker	4.3000e-004	2.8000e-004	3.5800e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0312	1.0312	3.0000e-005	3.0000e-005	1.0402
Total	**4.8000e-004**	**2.1300e-003**	**4.2200e-003**	**2.0000e-005**	**1.6300e-003**	**2.0000e-005**	**1.6400e-003**	**4.4000e-004**	**2.0000e-005**	**4.5000e-004**	**0.0000**	**1.8592**	**1.8592**	**6.0000e-005**	**1.5000e-004**	**1.9046**

3.7 Building Construction - 2024

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	0.0486	0.4436	0.5335	8.9000e-004		0.0202	0.0202		0.0190	0.0190	0.0000	76.5102	76.5102	0.0181	0.0000	76.9625
Total	**0.0486**	**0.4436**	**0.5335**	**8.9000e-004**		**0.0202**	**0.0202**		**0.0190**	**0.0190**	**0.0000**	**76.5102**	**76.5102**	**0.0181**	**0.0000**	**76.9625**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.2000e-004	0.0204	7.0700e-003	9.0000e-005	3.0700e-003	1.2000e-004	3.1900e-003	8.9000e-004	1.2000e-004	1.0000e-003	0.0000	9.1086	9.1086	2.9000e-004	1.3200e-003	9.5090
Worker	3.0200e-003	2.0000e-003	0.0253	8.0000e-005	9.5300e-003	5.0000e-005	9.5800e-003	2.5300e-003	5.0000e-005	2.5800e-003	0.0000	7.2917	7.2917	2.0000e-004	2.0000e-004	7.3553
Total	**3.5400e-003**	**0.0224**	**0.0324**	**1.7000e-004**	**0.0126**	**1.7000e-004**	**0.0128**	**3.4200e-003**	**1.7000e-004**	**3.5800e-003**	**0.0000**	**16.4003**	**16.4003**	**4.9000e-004**	**1.5200e-003**	**16.8644**

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	0.0486	0.4436	0.5335	8.9000e-004		0.0202	0.0202		0.0190	0.0190	0.0000	76.5101	76.5101	0.0181	0.0000	76.9624
Total	**0.0486**	**0.4436**	**0.5335**	**8.9000e-004**		**0.0202**	**0.0202**		**0.0190**	**0.0190**	**0.0000**	**76.5101**	**76.5101**	**0.0181**	**0.0000**	**76.9624**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.2000e-004	0.0204	7.0700e-003	9.0000e-005	3.0700e-003	1.2000e-004	3.1900e-003	8.9000e-004	1.2000e-004	1.0000e-003	0.0000	9.1086	9.1086	2.9000e-004	1.3200e-003	9.5090
Worker	3.0200e-003	2.0000e-003	0.0253	8.0000e-005	9.5300e-003	5.0000e-005	9.5800e-003	2.5300e-003	5.0000e-005	2.5800e-003	0.0000	7.2917	7.2917	2.0000e-004	2.0000e-004	7.3553
Total	**3.5400e-003**	**0.0224**	**0.0324**	**1.7000e-004**	**0.0126**	**1.7000e-004**	**0.0128**	**3.4200e-003**	**1.7000e-004**	**3.5800e-003**	**0.0000**	**16.4003**	**16.4003**	**4.9000e-004**	**1.5200e-003**	**16.8644**

3.7 Building Construction - 2025

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	0.1395	1.2719	1.6406	2.7500e-003		0.0538	0.0538		0.0506	0.0506	0.0000	236.5578	236.5578	0.0556	0.0000	237.9480
Total	**0.1395**	**1.2719**	**1.6406**	**2.7500e-003**		**0.0538**	**0.0538**		**0.0506**	**0.0506**	**0.0000**	**236.5578**	**236.5578**	**0.0556**	**0.0000**	**237.9480**

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.5600e-003	0.0623	0.0215	2.8000e-004	9.4800e-003	3.7000e-004	9.8600e-003	2.7400e-003	3.6000e-004	3.1000e-003	0.0000	27.6171	27.6171	9.1000e-004	4.0000e-003	28.8316
Worker	8.7900e-003	5.5900e-003	0.0733	2.4000e-004	0.0295	1.5000e-004	0.0296	7.8200e-003	1.4000e-004	7.9600e-003	0.0000	21.7713	21.7713	5.7000e-004	5.7000e-004	21.9556
Total	**0.0104**	**0.0679**	**0.0948**	**5.2000e-004**	**0.0389**	**5.2000e-004**	**0.0395**	**0.0106**	**5.0000e-004**	**0.0111**	**0.0000**	**49.3885**	**49.3885**	**1.4800e-003**	**4.5700e-003**	**50.7871**

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	0.1395	1.2719	1.6406	2.7500e-003		0.0538	0.0538		0.0506	0.0506	0.0000	236.5576	236.5576	0.0556	0.0000	237.9478
Total	**0.1395**	**1.2719**	**1.6406**	**2.7500e-003**		**0.0538**	**0.0538**		**0.0506**	**0.0506**	**0.0000**	**236.5576**	**236.5576**	**0.0556**	**0.0000**	**237.9478**

Mitigated Construction Off-Site

Vista Melrose - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.5600e-003	0.0623	0.0215	2.8000e-004	9.4800e-003	3.7000e-004	9.8600e-003	2.7400e-003	3.6000e-004	3.1000e-003	0.0000	27.6171	27.6171	9.1000e-004	4.0000e-003	28.8316
Worker	8.7900e-003	5.5900e-003	0.0733	2.4000e-004	0.0295	1.5000e-004	0.0296	7.8200e-003	1.4000e-004	7.9600e-003	0.0000	21.7713	21.7713	5.7000e-004	5.7000e-004	21.9556
Total	**0.0104**	**0.0679**	**0.0948**	**5.2000e-004**	**0.0389**	**5.2000e-004**	**0.0395**	**0.0106**	**5.0000e-004**	**0.0111**	**0.0000**	**49.3885**	**49.3885**	**1.4800e-003**	**4.5700e-003**	**50.7871**

3.8 Architectural Coating - 2025

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	0.2687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.2704**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	4.0000e-005	1.7500e-003	6.0000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7736	0.7736	3.0000e-005	1.1000e-004	0.8076
Worker	1.9000e-004	1.2000e-004	1.6000e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4743	0.4743	1.0000e-005	1.0000e-005	0.4783
Total	**2.3000e-004**	**1.8700e-003**	**2.2000e-003**	**2.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.2000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**1.2479**	**1.2479**	**4.0000e-005**	**1.2000e-004**	**1.2859**

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	0.2687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.2704**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

Mitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	4.0000e-005	1.7500e-003	6.0000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7736	0.7736	3.0000e-005	1.1000e-004	0.8076
Worker	1.9000e-004	1.2000e-004	1.6000e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4743	0.4743	1.0000e-005	1.0000e-005	0.4783
Total	**2.3000e-004**	**1.8700e-003**	**2.2000e-003**	**2.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.2000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**1.2479**	**1.2479**	**4.0000e-005**	**1.2000e-004**	**1.2859**

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	0.1644	0.1829	1.5416	3.2900e-003	0.3631	2.5500e-003	0.3657	0.0969	2.3800e-003	0.0993	0.0000	303.9846	303.9846	0.0217	0.0138	308.6374
Unmitigated	0.1644	0.1829	1.5416	3.2900e-003	0.3631	2.5500e-003	0.3657	0.0969	2.3800e-003	0.0993	0.0000	303.9846	303.9846	0.0217	0.0138	308.6374

4.2 Trip Summary Information

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	340.00	340.00	340.00	970,803	970,803
Total	340.00	340.00	340.00	970,803	970,803

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004
Other Asphalt Surfaces	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004
Single Family Housing	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004

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

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Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.2415	65.2415	3.9900e-003	4.8000e-004	65.4852
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.2415	65.2415	3.9900e-003	4.8000e-004	65.4852
NaturalGas Mitigated	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1568	39.1568	7.5000e-004	7.2000e-004	39.3895
NaturalGas Unmitigated	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1568	39.1568	7.5000e-004	7.2000e-004	39.3895

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					
City Park	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
Other 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
Single Family Housing	733770	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1568	39.1568	7.5000e-004	7.2000e-004	39.3895
Total		**3.9600e-003**	**0.0338**	**0.0144**	**2.2000e-004**		**2.7300e-003**	**2.7300e-003**		**2.7300e-003**	**2.7300e-003**	**0.0000**	**39.1568**	**39.1568**	**7.5000e-004**	**7.2000e-004**	**39.3895**

Mitigated

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	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					
City Park	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
Other 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
Single Family Housing	733770	3.9600e-003	0.0338	0.0144	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	39.1568	39.1568	7.5000e-004	7.2000e-004	39.3895
Total		**3.9600e-003**	**0.0338**	**0.0144**	**2.2000e-004**		**2.7300e-003**	**2.7300e-003**		**2.7300e-003**	**2.7300e-003**	**0.0000**	**39.1568**	**39.1568**	**7.5000e-004**	**7.2000e-004**	**39.3895**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	266367	65.2415	3.9900e-003	4.8000e-004	65.4852
Total		**65.2415**	**3.9900e-003**	**4.8000e-004**	**65.4852**

Mitigated

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	266367	65.2415	3.9900e-003	4.8000e-004	65.4852
Total		**65.2415**	**3.9900e-003**	**4.8000e-004**	**65.4852**

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	0.4028	0.0312	0.5771	1.1900e-003		0.0546	0.0546		0.0546	0.0546	6.8726	27.1932	34.0659	0.0330	4.9000e-004	35.0381
Unmitigated	0.4028	0.0312	0.5771	1.1900e-003		0.0546	0.0546		0.0546	0.0546	6.8726	27.1932	34.0659	0.0330	4.9000e-004	35.0381

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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	0.0269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0374	0.0283	0.3245	1.1700e-003		0.0532	0.0532		0.0532	0.0532	6.8726	26.7801	33.6527	0.0326	4.9000e-004	34.6151
Landscaping	7.6100e-003	2.9100e-003	0.2526	1.0000e-005		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	0.4131	0.4131	4.0000e-004	0.0000	0.4231
Total	**0.4028**	**0.0312**	**0.5771**	**1.1800e-003**		**0.0546**	**0.0546**		**0.0546**	**0.0546**	**6.8726**	**27.1932**	**34.0659**	**0.0330**	**4.9000e-004**	**35.0381**

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	0.0269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0374	0.0283	0.3245	1.1700e-003		0.0532	0.0532		0.0532	0.0532	6.8726	26.7801	33.6527	0.0326	4.9000e-004	34.6151
Landscaping	7.6100e-003	2.9100e-003	0.2526	1.0000e-005		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	0.4131	0.4131	4.0000e-004	0.0000	0.4231

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Total	**0.4028**	**0.0312**	**0.5771**	**1.1800e-003**		**0.0546**	**0.0546**		**0.0546**	**0.0546**	**6.8726**	**27.1932**	**34.0659**	**0.0330**	**4.9000e-004**	**35.0381**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.5083	0.0729	1.7900e-003	14.8649
Unmitigated	12.5083	0.0729	1.7900e-003	14.8649

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.34553	0.9403	6.0000e-005	1.0000e-005	0.9438
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000

Vista Melrose - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Single Family Housing	2.21524 / 1.39656	11.5680	0.0729	1.7800e-003	13.9211
Total		**12.5083**	**0.0729**	**1.7900e-003**	**14.8649**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.34553	0.9403	6.0000e-005	1.0000e-005	0.9438
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.21524 / 1.39656	11.5680	0.0729	1.7800e-003	13.9211
Total		**12.5083**	**0.0729**	**1.7900e-003**	**14.8649**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

Vista Melrose - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	MT/yr			
Mitigated	8.0770	0.4773	0.0000	20.0105
Unmitigated	8.0770	0.4773	0.0000	20.0105

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39.77	8.0730	0.4771	0.0000	20.0004
Total		**8.0770**	**0.4773**	**0.0000**	**20.0105**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Vista Melrose - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39.77	8.0730	0.4771	0.0000	20.0004
Total		**8.0770**	**0.4773**	**0.0000**	**20.0105**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

751
751

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vista Melrose

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.35	1000sqft	0.97	42,347.00	0
City Park	0.29	Acre	0.29	12,526.00	0
Single Family Housing	34.00	Dwelling Unit	4.02	84,000.00	97

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The lot is 5.28 acres total. Park and roads have known sqft. Housing must be the difference.

Construction Phase - Given on data request

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Given in data request

Off-road Equipment - Given in data request

Off-road Equipment -

Trips and VMT - Even trip numbers, assuming 4 vendor trips per day.

Date: 9/8/2022 10:25 AM

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition -

Grading - Given on data request.

Architectural Coating - Changed VOC limits to meet SDAPCD thresholds.

Woodstoves - One gas fireplace per home given in data request.

Area Coating - Changed VOC limits to meet SDAPCD thresholds.

Area Mitigation - Changed VOC limits to meet SDAPCD thresholds.

Vehicle Trips - Per traffic report, assuming 0 trips for the open space and 10 daily trips per dwelling unit.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	230.00	270.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	21.00
tblFireplaces	NumberGas	18.70	34.00
tblFireplaces	NumberWood	11.90	0.00
tblGrading	MaterialExported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	42,350.00	42,347.00
tblLandUse	LandUseSquareFeet	12,632.40	12,526.00

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	61,200.00	84,000.00
tblLandUse	LotAcreage	11.04	4.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	199.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	13.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.00

2.0 Emissions Summary

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	5.0224	49.6816	39.2719	0.0865	22.2318	2.2037	24.4354	10.5520	2.0367	12.5887	0.0000	8,469.1383	8,469.1383	2.2856	0.1328	8,564.8485
2025	27.0640	13.1096	17.0469	0.0322	0.3906	0.5327	0.9232	0.1057	0.5011	0.6068	0.0000	3,101.4727	3,101.4727	0.6167	0.0489	3,131.4744
Maximum	**27.0640**	**49.6816**	**39.2719**	**0.0865**	**22.2318**	**2.2037**	**24.4354**	**10.5520**	**2.0367**	**12.5887**	**0.0000**	**8,469.1383**	**8,469.1383**	**2.2856**	**0.1328**	**8,564.8485**

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					
2024	5.0224	49.6816	39.2719	0.0865	22.2318	2.2037	24.4354	10.5520	2.0367	12.5887	0.0000	8,469.1383	8,469.1383	2.2856	0.1328	8,564.8485
2025	27.0640	13.1096	17.0469	0.0322	0.3906	0.5327	0.9232	0.1057	0.5011	0.6068	0.0000	3,101.4727	3,101.4727	0.6167	0.0489	3,131.4744
Maximum	**27.0640**	**49.6816**	**39.2719**	**0.0865**	**22.2318**	**2.2037**	**24.4354**	**10.5520**	**2.0367**	**12.5887**	**0.0000**	**8,469.1383**	**8,469.1383**	**2.2856**	**0.1328**	**8,564.8485**

	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

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Energy	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Mobile	0.9421	0.9379	8.4224	0.0188	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,913.6018	1,913.6018	0.1269	0.0802	1,940.6590
Total	**3.9198**	**1.8447**	**19.2219**	**0.0488**	**2.0436**	**1.3420**	**3.3856**	**0.5444**	**1.3411**	**1.8855**	**184.7750**	**2,875.1712**	**3,059.9462**	**1.0138**	**0.0977**	**3,114.4037**

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	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Energy	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Mobile	0.9421	0.9379	8.4224	0.0188	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,913.6018	1,913.6018	0.1269	0.0802	1,940.6590

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	3.9198	1.8447	19.2219	0.0488	2.0436	1.3420	3.3856	0.5444	1.3411	1.8855	184.7750	2,875.1712	3,059.9462	1.0138	0.0977	3,114.4037

	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	Demolition	Demolition	2/1/2024	2/29/2024	5	21	
2	Site Preparation	Site Preparation	2/16/2024	2/29/2024	5	10	
3	Grading	Grading	3/1/2024	5/31/2024	5	66	
4	Utilities	Grading	6/1/2024	8/30/2024	5	65	
5	Paving	Paving	9/1/2024	9/30/2024	5	21	
6	Building Construction	Building Construction	10/1/2024	10/13/2025	5	270	
7	Architectural Coating	Architectural Coating	10/14/2025	11/10/2025	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 132

Acres of Paving: 0.97

Residential Indoor: 170,100; Residential Outdoor: 56,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,541 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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	3	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
Utilities	Excavators	2	8.00	158	0.38
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	3	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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
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
Demolition	6	16.00	4.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	750.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	1	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2024

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					2.0747	0.0000	2.0747	0.3142	0.0000	0.3142			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**2.0747**	**0.9602**	**3.0348**	**0.3142**	**0.8922**	**1.2064**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

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	0.0213	1.2350	0.3470	5.5800e-003	0.1666	0.0106	0.1772	0.0457	0.0102	0.0558		618.7012	618.7012	0.0327	0.0985	648.8608
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0670**	**1.4297**	**0.7655**	**7.5000e-003**	**0.3251**	**0.0124**	**0.3375**	**0.0883**	**0.0118**	**0.1001**		**819.1078**	**819.1078**	**0.0384**	**0.1138**	**853.9717**

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					2.0747	0.0000	2.0747	0.3142	0.0000	0.3142			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**2.0747**	**0.9602**	**3.0348**	**0.3142**	**0.8922**	**1.2064**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

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	0.0213	1.2350	0.3470	5.5800e-003	0.1666	0.0106	0.1772	0.0457	0.0102	0.0558		618.7012	618.7012	0.0327	0.0985	648.8608
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0670**	**1.4297**	**0.7655**	**7.5000e-003**	**0.3251**	**0.0124**	**0.3375**	**0.0883**	**0.0118**	**0.1001**		**819.1078**	**819.1078**	**0.0384**	**0.1138**	**853.9717**

3.3 Site Preparation - 2024

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0508**	**0.1978**	**0.4634**	**2.0600e-003**	**0.1750**	**1.8000e-003**	**0.1768**	**0.0470**	**1.6900e-003**	**0.0487**		**214.5978**	**214.5978**	**6.0000e-003**	**0.0157**	**219.4129**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0508**	**0.1978**	**0.4634**	**2.0600e-003**	**0.1750**	**1.8000e-003**	**0.1768**	**0.0470**	**1.6900e-003**	**0.0487**		**214.5978**	**214.5978**	**6.0000e-003**	**0.0157**	**219.4129**

3.4 Grading - 2024

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					8.1559	0.0000	8.1559	3.5412	0.0000	3.5412			0.0000			0.0000
Off-Road	2.3709	25.3424	18.0723	0.0429		0.9940	0.9940		0.9144	0.9144		4,154.0690	4,154.0690	1.3435		4,187.6568
Total	**2.3709**	**25.3424**	**18.0723**	**0.0429**	**8.1559**	**0.9940**	**9.1498**	**3.5412**	**0.9144**	**4.4556**		**4,154.0690**	**4,154.0690**	**1.3435**		**4,187.6568**

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	0.0254	1.4736	0.4140	6.6600e-003	0.1988	0.0127	0.2115	0.0545	0.0121	0.0666		738.2230	738.2230	0.0390	0.1175	774.2090
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0711**	**1.6683**	**0.8326**	**8.5800e-003**	**0.3573**	**0.0144**	**0.3717**	**0.0971**	**0.0138**	**0.1109**		**938.6296**	**938.6296**	**0.0447**	**0.1328**	**979.3198**

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					8.1559	0.0000	8.1559	3.5412	0.0000	3.5412			0.0000			0.0000
Off-Road	2.3709	25.3424	18.0723	0.0429		0.9940	0.9940		0.9144	0.9144	0.0000	4,154.0690	4,154.0690	1.3435		4,187.6568
Total	**2.3709**	**25.3424**	**18.0723**	**0.0429**	**8.1559**	**0.9940**	**9.1498**	**3.5412**	**0.9144**	**4.4556**	**0.0000**	**4,154.0690**	**4,154.0690**	**1.3435**		**4,187.6568**

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	0.0254	1.4736	0.4140	6.6600e-003	0.1988	0.0127	0.2115	0.0545	0.0121	0.0666		738.2230	738.2230	0.0390	0.1175	774.2090
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0711**	**1.6683**	**0.8326**	**8.5800e-003**	**0.3573**	**0.0144**	**0.3717**	**0.0971**	**0.0138**	**0.1109**		**938.6296**	**938.6296**	**0.0447**	**0.1328**	**979.3198**

3.5 Utilities - 2024

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3605	2.8057	6.5301	0.0103		0.1382	0.1382		0.1271	0.1271		1,000.5307	1,000.5307	0.3236		1,008.6205
Total	**0.3605**	**2.8057**	**6.5301**	**0.0103**	**0.0000**	**0.1382**	**0.1382**	**0.0000**	**0.1271**	**0.1271**		**1,000.5307**	**1,000.5307**	**0.3236**		**1,008.6205**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0154	9.1600e-003	0.1343	4.2000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133		42.5735	42.5735	1.0900e-003	1.0300e-003	42.9063

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0200**	**0.1795**	**0.1947**	**1.2200e-003**	**0.0764**	**1.3000e-003**	**0.0777**	**0.0209**	**1.2300e-003**	**0.0221**		**129.4508**	**129.4508**	**3.8300e-003**	**0.0136**	**133.6004**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3605	2.8057	6.5301	0.0103		0.1382	0.1382		0.1271	0.1271	0.0000	1,000.5307	1,000.5307	0.3236		1,008.6205
Total	**0.3605**	**2.8057**	**6.5301**	**0.0103**	**0.0000**	**0.1382**	**0.1382**	**0.0000**	**0.1271**	**0.1271**	**0.0000**	**1,000.5307**	**1,000.5307**	**0.3236**		**1,008.6205**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0154	9.1600e-003	0.1343	4.2000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133		42.5735	42.5735	1.0900e-003	1.0300e-003	42.9063

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0200**	**0.1795**	**0.1947**	**1.2200e-003**	**0.0764**	**1.3000e-003**	**0.0777**	**0.0209**	**1.2300e-003**	**0.0221**		**129.4508**	**129.4508**	**3.8300e-003**	**0.0136**	**133.6004**

3.6 Paving - 2024

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	1.5264	15.4221	19.1752	0.0341		0.6846	0.6846		0.6299	0.6299		3,303.2169	3,303.2169	1.0683		3,329.9250
Paving	0.1210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6474**	**15.4221**	**19.1752**	**0.0341**		**0.6846**	**0.6846**		**0.6299**	**0.6299**		**3,303.2169**	**3,303.2169**	**1.0683**		**3,329.9250**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0457**	**0.1947**	**0.4186**	**1.9200e-003**	**0.1585**	**1.7200e-003**	**0.1603**	**0.0427**	**1.6200e-003**	**0.0443**		**200.4066**	**200.4066**	**5.6400e-003**	**0.0153**	**205.1108**

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	1.5264	15.4221	19.1752	0.0341		0.6846	0.6846		0.6299	0.6299	0.0000	3,303.2169	3,303.2169	1.0683		3,329.9250
Paving	0.1210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6474**	**15.4221**	**19.1752**	**0.0341**		**0.6846**	**0.6846**		**0.6299**	**0.6299**	**0.0000**	**3,303.2169**	**3,303.2169**	**1.0683**		**3,329.9250**

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	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0457**	**0.1947**	**0.4186**	**1.9200e-003**	**0.1585**	**1.7200e-003**	**0.1603**	**0.0427**	**1.6200e-003**	**0.0443**		**200.4066**	**200.4066**	**5.6400e-003**	**0.0153**	**205.1108**

3.7 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.0000
Vendor	0.0161	0.5961	0.2112	2.8100e-003	0.0948	3.6700e-003	0.0985	0.0273	3.5100e-003	0.0308		304.0703	304.0703	9.5900e-003	0.0440	317.4294
Worker	0.0924	0.0549	0.8060	2.5300e-003	0.2957	1.5100e-003	0.2972	0.0784	1.3900e-003	0.0798		255.4411	255.4411	6.5200e-003	6.1500e-003	257.4376
Total	**0.1085**	**0.6510**	**1.0172**	**5.3400e-003**	**0.3906**	**5.1800e-003**	**0.3957**	**0.1057**	**4.9000e-003**	**0.1106**		**559.5114**	**559.5114**	**0.0161**	**0.0502**	**574.8670**

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.0000
Vendor	0.0161	0.5961	0.2112	2.8100e-003	0.0948	3.6700e-003	0.0985	0.0273	3.5100e-003	0.0308		304.0703	304.0703	9.5900e-003	0.0440	317.4294
Worker	0.0924	0.0549	0.8060	2.5300e-003	0.2957	1.5100e-003	0.2972	0.0784	1.3900e-003	0.0798		255.4411	255.4411	6.5200e-003	6.1500e-003	257.4376
Total	**0.1085**	**0.6510**	**1.0172**	**5.3400e-003**	**0.3906**	**5.1800e-003**	**0.3957**	**0.1057**	**4.9000e-003**	**0.1106**		**559.5114**	**559.5114**	**0.0161**	**0.0502**	**574.8670**

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	0.0000
Vendor	0.0156	0.5902	0.2077	2.7500e-003	0.0948	3.6600e-003	0.0985	0.0273	3.5000e-003	0.0308		298.2698	298.2698	9.8400e-003	0.0432	311.3782
Worker	0.0870	0.0497	0.7545	2.4400e-003	0.2957	1.4400e-003	0.2972	0.0784	1.3300e-003	0.0798		246.7286	246.7286	5.9400e-003	5.7800e-003	248.5982
Total	**0.1026**	**0.6399**	**0.9622**	**5.1900e-003**	**0.3906**	**5.1000e-003**	**0.3957**	**0.1057**	**4.8300e-003**	**0.1106**		**544.9983**	**544.9983**	**0.0158**	**0.0489**	**559.9764**

Mitigated Construction On-Site

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	0.0000
Vendor	0.0156	0.5902	0.2077	2.7500e-003	0.0948	3.6600e-003	0.0985	0.0273	3.5000e-003	0.0308		298.2698	298.2698	9.8400e-003	0.0432	311.3782
Worker	0.0870	0.0497	0.7545	2.4400e-003	0.2957	1.4400e-003	0.2972	0.0784	1.3300e-003	0.0798		246.7286	246.7286	5.9400e-003	5.7800e-003	248.5982
Total	**0.1026**	**0.6399**	**0.9622**	**5.1900e-003**	**0.3906**	**5.1000e-003**	**0.3957**	**0.1057**	**4.8300e-003**	**0.1106**		**544.9983**	**544.9983**	**0.0158**	**0.0489**	**559.9764**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	26.8693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**27.0402**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.0000
Vendor	4.4600e-003	0.1686	0.0593	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		85.2199	85.2199	2.8100e-003	0.0123	88.9652
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177		54.8286	54.8286	1.3200e-003	1.2800e-003	55.2440
Total	**0.0238**	**0.1797**	**0.2270**	**1.3300e-003**	**0.0928**	**1.3700e-003**	**0.0942**	**0.0252**	**1.2900e-003**	**0.0265**		**140.0485**	**140.0485**	**4.1300e-003**	**0.0136**	**144.2092**

Mitigated Construction On-Site

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	26.8693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**27.0402**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.0000
Vendor	4.4600e-003	0.1686	0.0593	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		85.2199	85.2199	2.8100e-003	0.0123	88.9652
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177		54.8286	54.8286	1.3200e-003	1.2800e-003	55.2440
Total	**0.0238**	**0.1797**	**0.2270**	**1.3300e-003**	**0.0928**	**1.3700e-003**	**0.0942**	**0.0252**	**1.2900e-003**	**0.0265**		**140.0485**	**140.0485**	**4.1300e-003**	**0.0136**	**144.2092**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Date: 9/8/2022 10:25 AM

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	0.9421	0.9379	8.4224	0.0188	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,913.6018	1,913.6018	0.1269	0.0802	1,940.6590
Unmitigated	0.9421	0.9379	8.4224	0.0188	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,913.6018	1,913.6018	0.1269	0.0802	1,940.6590

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	340.00	340.00	340.00	970,803	970,803
Total	340.00	340.00	340.00	970,803	970,803

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00
Other Asphalt Surfaces	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00
Single Family Housing	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
NaturalGas Unmitigated	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147

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					
City Park	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
Other 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
Single Family Housing	2010.33	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total		**0.0217**	**0.1853**	**0.0788**	**1.1800e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**236.5093**	**236.5093**	**4.5300e-003**	**4.3400e-003**	**237.9147**

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					
City Park	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
Other 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
Single Family Housing	2.01033	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Total		**0.0217**	**0.1853**	**0.0788**	**1.1800e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**236.5093**	**236.5093**	**4.5300e-003**	**4.3400e-003**	**237.9147**

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

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Mitigated	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Unmitigated	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299

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	0.1472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9110	0.6892	7.9139	0.0286		1.2975	1.2975		1.2975	1.2975	184.7750	720.0000	904.7750	0.8776	0.0132	930.6483
Landscaping	0.0845	0.0323	2.8067	1.5000e-004		0.0156	0.0156		0.0156	0.0156		5.0601	5.0601	4.8600e-003		5.1816
Total	**2.9560**	**0.7215**	**10.7207**	**0.0288**		**1.3130**	**1.3130**		**1.3130**	**1.3130**	**184.7750**	**725.0601**	**909.8352**	**0.8825**	**0.0132**	**935.8299**

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

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

SubCategory	lb/day										lb/day					
Architectural Coating	0.1472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9110	0.6892	7.9139	0.0286		1.2975	1.2975		1.2975	1.2975	184.7750	720.0000	904.7750	0.8776	0.0132	930.6483
Landscaping	0.0845	0.0323	2.8067	1.5000e-004		0.0156	0.0156		0.0156	0.0156		5.0601	5.0601	4.8600e-003		5.1816
Total	**2.9560**	**0.7215**	**10.7207**	**0.0288**		**1.3130**	**1.3130**		**1.3130**	**1.3130**	**184.7750**	**725.0601**	**909.8352**	**0.8825**	**0.0132**	**935.8299**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Vista Melrose - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Vista Melrose - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vista Melrose

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.35	1000sqft	0.97	42,347.00	0
City Park	0.29	Acre	0.29	12,526.00	0
Single Family Housing	34.00	Dwelling Unit	4.02	84,000.00	97

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The lot is 5.28 acres total. Park and roads have known sqft. Housing must be the difference.

Construction Phase - Given on data request

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Given in data request

Off-road Equipment - Given in data request

Off-road Equipment -

Trips and VMT - Even trip numbers, assuming 4 vendor trips per day.

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vista Melrose

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	42.35	1000sqft	0.97	42,347.00	0
City Park	0.29	Acre	0.29	12,526.00	0
Single Family Housing	34.00	Dwelling Unit	4.02	84,000.00	97

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The lot is 5.28 acres total. Park and roads have known sqft. Housing must be the difference.

Construction Phase - Given on data request

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Given in data request

Off-road Equipment - Given in data request

Off-road Equipment -

Trips and VMT - Even trip numbers, assuming 4 vendor trips per day.

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition -

Grading - Given on data request.

Architectural Coating - Changed VOC limits to meet SDAPCD thresholds.

Woodstoves - One gas fireplace per home given in data request.

Area Coating - Changed VOC limits to meet SDAPCD thresholds.

Area Mitigation - Changed VOC limits to meet SDAPCD thresholds.

Vehicle Trips - Per traffic report, assuming 0 trips for the open space and 10 daily trips per dwelling unit.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	230.00	270.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	21.00
tblFireplaces	NumberGas	18.70	34.00
tblFireplaces	NumberWood	11.90	0.00
tblGrading	MaterialExported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	42,350.00	42,347.00
tblLandUse	LandUseSquareFeet	12,632.40	12,526.00

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	61,200.00	84,000.00
tblLandUse	LotAcreage	11.04	4.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	199.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	13.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.00

2.0 Emissions Summary

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	5.0284	49.7524	39.2434	0.0863	22.2318	2.2037	24.4355	10.5520	2.0367	12.5887	0.0000	8,456.7745	8,456.7745	2.2859	0.1332	8,552.6808
2025	27.0656	13.1408	17.0183	0.0320	0.3906	0.5327	0.9232	0.1057	0.5011	0.6069	0.0000	3,088.4156	3,088.4156	0.6171	0.0495	3,118.5958
Maximum	**27.0656**	**49.7524**	**39.2434**	**0.0863**	**22.2318**	**2.2037**	**24.4355**	**10.5520**	**2.0367**	**12.5887**	**0.0000**	**8,456.7745**	**8,456.7745**	**2.2859**	**0.1332**	**8,552.6808**

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					
2024	5.0284	49.7524	39.2434	0.0863	22.2318	2.2037	24.4355	10.5520	2.0367	12.5887	0.0000	8,456.7745	8,456.7745	2.2859	0.1332	8,552.6808
2025	27.0656	13.1408	17.0183	0.0320	0.3906	0.5327	0.9232	0.1057	0.5011	0.6069	0.0000	3,088.4156	3,088.4156	0.6171	0.0495	3,118.5958
Maximum	**27.0656**	**49.7524**	**39.2434**	**0.0863**	**22.2318**	**2.2037**	**24.4355**	**10.5520**	**2.0367**	**12.5887**	**0.0000**	**8,456.7745**	**8,456.7745**	**2.2859**	**0.1332**	**8,552.6808**

	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

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Energy	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Mobile	0.9199	1.0160	8.6433	0.0180	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,830.9396	1,830.9396	0.1340	0.0844	1,859.4328
Total	**3.8976**	**1.9228**	**19.4428**	**0.0479**	**2.0436**	**1.3420**	**3.3856**	**0.5444**	**1.3411**	**1.8855**	**184.7750**	**2,792.5089**	**2,977.2840**	**1.0209**	**0.1019**	**3,033.1774**

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	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Energy	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Mobile	0.9199	1.0160	8.6433	0.0180	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,830.9396	1,830.9396	0.1340	0.0844	1,859.4328

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	3.8976	1.9228	19.4428	0.0479	2.0436	1.3420	3.3856	0.5444	1.3411	1.8855	184.7750	2,792.5089	2,977.2840	1.0209	0.1019	3,033.1774

	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	Demolition	Demolition	2/1/2024	2/29/2024	5	21	
2	Site Preparation	Site Preparation	2/16/2024	2/29/2024	5	10	
3	Grading	Grading	3/1/2024	5/31/2024	5	66	
4	Utilities	Grading	6/1/2024	8/30/2024	5	65	
5	Paving	Paving	9/1/2024	9/30/2024	5	21	
6	Building Construction	Building Construction	10/1/2024	10/13/2025	5	270	
7	Architectural Coating	Architectural Coating	10/14/2025	11/10/2025	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 132

Acres of Paving: 0.97

Residential Indoor: 170,100; Residential Outdoor: 56,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,541 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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	3	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
Utilities	Excavators	2	8.00	158	0.38
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	3	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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
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
Demolition	6	16.00	4.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	750.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	2	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	1	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2024

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					2.0747	0.0000	2.0747	0.3142	0.0000	0.3142			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**2.0747**	**0.9602**	**3.0348**	**0.3142**	**0.8922**	**1.2064**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

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	0.0200	1.2849	0.3513	5.5900e-003	0.1666	0.0107	0.1772	0.0457	0.0102	0.0559		619.3132	619.3132	0.0326	0.0986	649.5011
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0691**	**1.4899**	**0.7545**	**7.4500e-003**	**0.3251**	**0.0124**	**0.3375**	**0.0883**	**0.0118**	**0.1001**		**813.6210**	**813.6210**	**0.0385**	**0.1141**	**848.5926**

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					2.0747	0.0000	2.0747	0.3142	0.0000	0.3142			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**2.0747**	**0.9602**	**3.0348**	**0.3142**	**0.8922**	**1.2064**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

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	0.0200	1.2849	0.3513	5.5900e-003	0.1666	0.0107	0.1772	0.0457	0.0102	0.0559		619.3132	619.3132	0.0326	0.0986	649.5011
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0691**	**1.4899**	**0.7545**	**7.4500e-003**	**0.3251**	**0.0124**	**0.3375**	**0.0883**	**0.0118**	**0.1001**		**813.6210**	**813.6210**	**0.0385**	**0.1141**	**848.5926**

3.3 Site Preparation - 2024

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0502	0.0309	0.3837	1.1900e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		120.7165	120.7165	3.4800e-003	3.3300e-003	121.7947

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0547**	**0.2084**	**0.4459**	**1.9900e-003**	**0.1750**	**1.8000e-003**	**0.1768**	**0.0470**	**1.7000e-003**	**0.0487**		**207.7208**	**207.7208**	**6.2100e-003**	**0.0159**	**212.6243**

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**19.6570**	**1.2294**	**20.8864**	**10.1025**	**1.1310**	**11.2335**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0502	0.0309	0.3837	1.1900e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		120.7165	120.7165	3.4800e-003	3.3300e-003	121.7947

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0547**	**0.2084**	**0.4459**	**1.9900e-003**	**0.1750**	**1.8000e-003**	**0.1768**	**0.0470**	**1.7000e-003**	**0.0487**		**207.7208**	**207.7208**	**6.2100e-003**	**0.0159**	**212.6243**

3.4 Grading - 2024

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					8.1559	0.0000	8.1559	3.5412	0.0000	3.5412			0.0000			0.0000
Off-Road	2.3709	25.3424	18.0723	0.0429		0.9940	0.9940		0.9144	0.9144		4,154.0690	4,154.0690	1.3435		4,187.6568
Total	**2.3709**	**25.3424**	**18.0723**	**0.0429**	**8.1559**	**0.9940**	**9.1498**	**3.5412**	**0.9144**	**4.4556**		**4,154.0690**	**4,154.0690**	**1.3435**		**4,187.6568**

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	0.0239	1.5331	0.4191	6.6700e-003	0.1988	0.0127	0.2115	0.0545	0.0122	0.0666		738.9533	738.9533	0.0389	0.1176	774.9729
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0730**	**1.7381**	**0.8224**	**8.5300e-003**	**0.3573**	**0.0144**	**0.3717**	**0.0971**	**0.0138**	**0.1109**		**933.2611**	**933.2611**	**0.0448**	**0.1332**	**974.0645**

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					8.1559	0.0000	8.1559	3.5412	0.0000	3.5412			0.0000			0.0000
Off-Road	2.3709	25.3424	18.0723	0.0429		0.9940	0.9940		0.9144	0.9144	0.0000	4,154.0690	4,154.0690	1.3435		4,187.6568
Total	**2.3709**	**25.3424**	**18.0723**	**0.0429**	**8.1559**	**0.9940**	**9.1498**	**3.5412**	**0.9144**	**4.4556**	**0.0000**	**4,154.0690**	**4,154.0690**	**1.3435**		**4,187.6568**

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	0.0239	1.5331	0.4191	6.6700e-003	0.1988	0.0127	0.2115	0.0545	0.0122	0.0666		738.9533	738.9533	0.0389	0.1176	774.9729
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0730**	**1.7381**	**0.8224**	**8.5300e-003**	**0.3573**	**0.0144**	**0.3717**	**0.0971**	**0.0138**	**0.1109**		**933.2611**	**933.2611**	**0.0448**	**0.1332**	**974.0645**

3.5 Utilities - 2024

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3605	2.8057	6.5301	0.0103		0.1382	0.1382		0.1271	0.1271		1,000.5307	1,000.5307	0.3236		1,008.6205
Total	**0.3605**	**2.8057**	**6.5301**	**0.0103**	**0.0000**	**0.1382**	**0.1382**	**0.0000**	**0.1271**	**0.1271**		**1,000.5307**	**1,000.5307**	**0.3236**		**1,008.6205**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0167	0.0103	0.1279	4.0000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133		40.2388	40.2388	1.1600e-003	1.1100e-003	40.5983

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0212**	**0.1878**	**0.1901**	**1.2000e-003**	**0.0764**	**1.3000e-003**	**0.0777**	**0.0209**	**1.2400e-003**	**0.0221**		**127.2431**	**127.2431**	**3.8900e-003**	**0.0137**	**131.4278**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3605	2.8057	6.5301	0.0103		0.1382	0.1382		0.1271	0.1271	0.0000	1,000.5307	1,000.5307	0.3236		1,008.6205
Total	**0.3605**	**2.8057**	**6.5301**	**0.0103**	**0.0000**	**0.1382**	**0.1382**	**0.0000**	**0.1271**	**0.1271**	**0.0000**	**1,000.5307**	**1,000.5307**	**0.3236**		**1,008.6205**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0167	0.0103	0.1279	4.0000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133		40.2388	40.2388	1.1600e-003	1.1100e-003	40.5983

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0212**	**0.1878**	**0.1901**	**1.2000e-003**	**0.0764**	**1.3000e-003**	**0.0777**	**0.0209**	**1.2400e-003**	**0.0221**		**127.2431**	**127.2431**	**3.8900e-003**	**0.0137**	**131.4278**

3.6 Paving - 2024

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	1.5264	15.4221	19.1752	0.0341		0.6846	0.6846		0.6299	0.6299		3,303.2169	3,303.2169	1.0683		3,329.9250
Paving	0.1210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6474**	**15.4221**	**19.1752**	**0.0341**		**0.6846**	**0.6846**		**0.6299**	**0.6299**		**3,303.2169**	**3,303.2169**	**1.0683**		**3,329.9250**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0491**	**0.2049**	**0.4033**	**1.8600e-003**	**0.1585**	**1.7200e-003**	**0.1603**	**0.0427**	**1.6300e-003**	**0.0443**		**194.3078**	**194.3078**	**5.8200e-003**	**0.0156**	**199.0915**

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	1.5264	15.4221	19.1752	0.0341		0.6846	0.6846		0.6299	0.6299	0.0000	3,303.2169	3,303.2169	1.0683		3,329.9250
Paving	0.1210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6474**	**15.4221**	**19.1752**	**0.0341**		**0.6846**	**0.6846**		**0.6299**	**0.6299**	**0.0000**	**3,303.2169**	**3,303.2169**	**1.0683**		**3,329.9250**

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	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.0491**	**0.2049**	**0.4033**	**1.8600e-003**	**0.1585**	**1.7200e-003**	**0.1603**	**0.0427**	**1.6300e-003**	**0.0443**		**194.3078**	**194.3078**	**5.8200e-003**	**0.0156**	**199.0915**

3.7 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.0000
Vendor	0.0156	0.6212	0.2177	2.8200e-003	0.0948	3.6900e-003	0.0985	0.0273	3.5300e-003	0.0308		304.5150	304.5150	9.5500e-003	0.0441	317.9034
Worker	0.1004	0.0618	0.7674	2.3900e-003	0.2957	1.5100e-003	0.2972	0.0784	1.3900e-003	0.0798		241.4330	241.4330	6.9500e-003	6.6500e-003	243.5895
Total	**0.1160**	**0.6830**	**0.9851**	**5.2100e-003**	**0.3906**	**5.2000e-003**	**0.3958**	**0.1057**	**4.9200e-003**	**0.1107**		**545.9479**	**545.9479**	**0.0165**	**0.0508**	**561.4928**

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.0000
Vendor	0.0156	0.6212	0.2177	2.8200e-003	0.0948	3.6900e-003	0.0985	0.0273	3.5300e-003	0.0308		304.5150	304.5150	9.5500e-003	0.0441	317.9034
Worker	0.1004	0.0618	0.7674	2.3900e-003	0.2957	1.5100e-003	0.2972	0.0784	1.3900e-003	0.0798		241.4330	241.4330	6.9500e-003	6.6500e-003	243.5895
Total	**0.1160**	**0.6830**	**0.9851**	**5.2100e-003**	**0.3906**	**5.2000e-003**	**0.3958**	**0.1057**	**4.9200e-003**	**0.1107**		**545.9479**	**545.9479**	**0.0165**	**0.0508**	**561.4928**

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	0.0000
Vendor	0.0151	0.6152	0.2141	2.7600e-003	0.0948	3.6800e-003	0.0985	0.0273	3.5200e-003	0.0308		298.7163	298.7163	9.7900e-003	0.0433	311.8534
Worker	0.0948	0.0559	0.7195	2.3100e-003	0.2957	1.4400e-003	0.2972	0.0784	1.3300e-003	0.0798		233.2249	233.2249	6.3500e-003	6.2400e-003	235.2444
Total	**0.1099**	**0.6711**	**0.9336**	**5.0700e-003**	**0.3906**	**5.1200e-003**	**0.3957**	**0.1057**	**4.8500e-003**	**0.1106**		**531.9413**	**531.9413**	**0.0161**	**0.0495**	**547.0978**

Mitigated Construction On-Site

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	0.0000
Vendor	0.0151	0.6152	0.2141	2.7600e-003	0.0948	3.6800e-003	0.0985	0.0273	3.5200e-003	0.0308		298.7163	298.7163	9.7900e-003	0.0433	311.8534
Worker	0.0948	0.0559	0.7195	2.3100e-003	0.2957	1.4400e-003	0.2972	0.0784	1.3300e-003	0.0798		233.2249	233.2249	6.3500e-003	6.2400e-003	235.2444
Total	**0.1099**	**0.6711**	**0.9336**	**5.0700e-003**	**0.3906**	**5.1200e-003**	**0.3957**	**0.1057**	**4.8500e-003**	**0.1106**		**531.9413**	**531.9413**	**0.0161**	**0.0495**	**547.0978**

3.8 Architectural Coating - 2025

Unmitigated Construction On-Site

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	26.8693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**27.0402**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177		51.8278	51.8278	1.4100e-003	1.3900e-003	52.2765
Total	**0.0254**	**0.1882**	**0.2211**	**1.3000e-003**	**0.0928**	**1.3700e-003**	**0.0942**	**0.0252**	**1.3000e-003**	**0.0265**		**137.1753**	**137.1753**	**4.2100e-003**	**0.0138**	**141.3775**

Mitigated Construction On-Site

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	26.8693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**27.0402**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.0000
Vendor	4.3100e-003	0.1758	0.0612	7.9000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0100e-003	8.8000e-003		85.3475	85.3475	2.8000e-003	0.0124	89.1010
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177		51.8278	51.8278	1.4100e-003	1.3900e-003	52.2765
Total	**0.0254**	**0.1882**	**0.2211**	**1.3000e-003**	**0.0928**	**1.3700e-003**	**0.0942**	**0.0252**	**1.3000e-003**	**0.0265**		**137.1753**	**137.1753**	**4.2100e-003**	**0.0138**	**141.3775**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	0.9199	1.0160	8.6433	0.0180	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,830.9396	1,830.9396	0.1340	0.0844	1,859.4328
Unmitigated	0.9199	1.0160	8.6433	0.0180	2.0436	0.0140	2.0576	0.5444	0.0131	0.5574		1,830.9396	1,830.9396	0.1340	0.0844	1,859.4328

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	340.00	340.00	340.00	970,803	970,803
Total	340.00	340.00	340.00	970,803	970,803

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00
Other Asphalt Surfaces	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00
Single Family Housing	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.00

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
NaturalGas Unmitigated	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147

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					
City Park	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
Other 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
Single Family Housing	2010.33	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total		**0.0217**	**0.1853**	**0.0788**	**1.1800e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**236.5093**	**236.5093**	**4.5300e-003**	**4.3400e-003**	**237.9147**

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					
City Park	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
Other 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
Single Family Housing	2.01033	0.0217	0.1853	0.0788	1.1800e-003		0.0150	0.0150		0.0150	0.0150		236.5093	236.5093	4.5300e-003	4.3400e-003	237.9147
Total		**0.0217**	**0.1853**	**0.0788**	**1.1800e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**236.5093**	**236.5093**	**4.5300e-003**	**4.3400e-003**	**237.9147**

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

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Mitigated	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299
Unmitigated	2.9560	0.7215	10.7207	0.0288		1.3130	1.3130		1.3130	1.3130	184.7750	725.0601	909.8352	0.8825	0.0132	935.8299

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	0.1472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9110	0.6892	7.9139	0.0286		1.2975	1.2975		1.2975	1.2975	184.7750	720.0000	904.7750	0.8776	0.0132	930.6483
Landscaping	0.0845	0.0323	2.8067	1.5000e-004		0.0156	0.0156		0.0156	0.0156		5.0601	5.0601	4.8600e-003		5.1816
Total	**2.9560**	**0.7215**	**10.7207**	**0.0288**		**1.3130**	**1.3130**		**1.3130**	**1.3130**	**184.7750**	**725.0601**	**909.8352**	**0.8825**	**0.0132**	**935.8299**

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

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

SubCategory	lb/day										lb/day					
Architectural Coating	0.1472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9110	0.6892	7.9139	0.0286		1.2975	1.2975		1.2975	1.2975	184.7750	720.0000	904.7750	0.8776	0.0132	930.6483
Landscaping	0.0845	0.0323	2.8067	1.5000e-004		0.0156	0.0156		0.0156	0.0156		5.0601	5.0601	4.8600e-003		5.1816
Total	**2.9560**	**0.7215**	**10.7207**	**0.0288**		**1.3130**	**1.3130**		**1.3130**	**1.3130**	**184.7750**	**725.0601**	**909.8352**	**0.8825**	**0.0132**	**935.8299**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Vista Melrose - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Pacific GPA/Rezone - Proposed Project
Project Construction Energy Demand

Construction Worker Gasoline Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Clear & Grub	70	0.29	8.78	33.22
Remedial & Mass Excavation	4,524	18.85	8.78	2,147.38
Wet Utilities	19,200	79.36	8.78	9,038.59
Finish Grading	720	3.00	8.78	341.75
Dry Utilities	3,536	14.23	8.78	1,621.29
Balancing/Aggregate Base	320	1.29	8.78	146.72
Curb & Gutter	210	0.85	8.78	96.29
Asphalt Paving	416	1.67	8.78	190.74
Building Construction PA-5	95,088	365.93	8.78	41,678.14
Concrete Flatwork	264	1.06	8.78	121.05
Building Construction PA-4	94,576	360.09	8.78	41,012.89
Building Construction PA-3	78,936	300.34	8.78	34,206.97
Building Construction PA-2	123,656	357.08	8.78	40,670.05
Building Construction PA-1	115,522	438.83	8.78	49,980.38
Building Construction PA-6	12,320	48.49	8.78	5,522.26
Architectural Coating PA-6	760	2.97	8.78	337.78
Architectural Coating PA-5	5,940	22.51	8.78	2,563.59
Architectural Coating PA-4	5,850	21.92	8.78	2,497.05
Architectural Coating PA-3	5,120	19.19	8.78	2,185.92
Architectural Coating PA-2	8,160	30.46	8.78	3,469.52
Architectural Coating PA-1	7,440	27.76	8.78	3,161.96
Total				**241,023.53**

Construction Vendor Diesel Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Clear & Grub	20	0.18	10.21	17.18
Remedial & Mass Excavation	348	3.05	10.21	298.94
Wet Utilities	960	8.38	10.21	821.04
Finish Grading	120	1.05	10.21	103.09
Dry Utilities	416	3.58	10.21	350.84
Balancing/Aggregate Base	80	0.69	10.21	67.47
Curb & Gutter	60	0.52	10.21	50.61
Asphalt Paving	104	0.90	10.21	87.71
Building Construction PA-5	20,376	170.33	10.21	16,682.86
Concrete Flatwork	48	0.41	10.21	40.48
Building Construction PA-4	20,560	170.52	10.21	16,701.53
Building Construction PA-3	16,192	134.23	10.21	13,147.34
Building Construction PA-2	27,716	229.06	10.21	22,435.33
Building Construction PA-1	23,496	194.58	10.21	19,057.59
Building Construction PA-6	2,464	20.93	10.21	2,049.64
Architectural Coating PA-6	380	3.21	10.21	314.48
Architectural Coating PA-5	1,080	8.94	10.21	875.41
Architectural Coating PA-4	1,300	10.67	10.21	1,044.98
Architectural Coating PA-3	1,280	10.51	10.21	1,029.06
Architectural Coating PA-2	1,360	11.13	10.21	1,089.99
Architectural Coating PA-1	1,240	10.14	10.21	993.48
Total				**97,259.02**

Construction Haul Diesel Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Clear & Grub	0		10.21	0.00
Remedial & Mass Excavation	0		10.21	0.00
Wet Utilities	0	0.00	10.21	0.00
Finish Grading	0	0.00	10.21	0.00
Dry Utilities	0	0.00	10.21	0.00
Total				**0.00**

Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO_2 (MT)	Kg CO2/Gallon	Gallons
Clear & Grub	0	4.44	10.21	434.43
Remedial & Mass Excavation	0	894.52	10.21	87,612.24
Wet Utilities	0	414.78	10.21	40,624.60
Finish Grading	0	97.29	10.21	9,528.96
Dry Utilities	0	71.25	10.21	6,977.99
Balancing/Aggregate Base	0	23.25	10.21	2,277.23
Curb & Gutter	0	2.68	10.21	262.77
Asphalt Paving	0	15.20	10.21	1,488.46
Building Construction PA-5	0	984.50	10.21	96,424.89
Concrete Flatwork	0	2.18	10.21	213.75
Building Construction PA-4	0	1192.07	10.21	116,754.75
Building Construction PA-3	0	1173.51	10.21	114,937.56
Building Construction PA-2	0	1236.13	10.21	121,070.59
Building Construction PA-1	0	1135.25	10.21	111,189.60
Building Construction PA-6	0	357.16	10.21	34,981.00
Architectural Coating PA-6	0	12.13	10.21	1,187.86
Architectural Coating PA-5	0	34.47	10.21	3,376.00
Architectural Coating PA-4	0	41.49	10.21	4,063.70
Architectural Coating PA-3	0	40.85	10.21	4,001.19
Architectural Coating PA-2	0	43.41	10.21	4,251.25
Architectural Coating PA-1	0	39.58	10.21	3,876.14
Total				**765,534.97**

Construction Equipment Usage

Phase	Hours of Use
Clear & Grub	0
Remedial & Mass Excavation	0
Wet Utilities	0
Finish Grading	0
Dry Utilities	0
Total	**0**

Appendix B
Biological Resources

Conifers

PINACEAE — PINE FAMILY

* *Pinus halepensis* — aleppo pine

SIGNIFIES INTRODUCED (NON-NATIVE) SPECIES

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Birds

Hawks

ACCIPITRIDAE — HAWKS, KITES, EAGLES, AND ALLIES

Accipiter cooperii — Cooper's hawk

Fishes

Gobies

GOBIDAE — GOBIES

Eucyclogobius newberryi — tidewater goby

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FORMS FIELD DATA REPORT

Bio Field Data

Record: 24274	
Date	*2022-07-28*
Biologist	*Dylan Ayers*
Project	*Select Project from List or Select ...*
Survey Area	*Entire Site*
Survey Type	*Reconnaissance*
Time	*11:07 AM–1:08 PM*
Conditions	*76–78°F; 0% cloud cover; 2–5 mph wind*
Visit Type	
Notes	
Number of Nests Observed	*0*

Survey Conditions	
Status	*Start*
Time	*11:07:00*
TEMPERATURE	*°F*
Air Temp	*76*
Air Temp	*76*
Soil Temp	*0*
Water Temp	*0*
Visibility	
Humidity	
Cloud Cover	*0*
WIND	*mph*
Wind	
Minimum Wind Speed (mph)	*2*

Survey Conditions	
Status	*End*
Time	*13:08:00*
TEMPERATURE	*°F*
Air Temp	*78*
Air Temp	*78*
Soil Temp	*0*
Water Temp	*0*
Visibility	
Humidity	
Cloud Cover	*0*
WIND	*mph*
Wind	
Minimum Wind Speed (mph)	*3*

Wildlife List	
Species Name	*mourning dove (Zenaida macroura), B-MODO*
Observation ID (Copy and paste into Collector)	*07281213DA-01-01*
Record Lat/Long	
Federal and State Status	*None/None*

Wildlife List	
Species Name	*common raven (Corvus corax), B-CORA*
Observation ID (Copy and paste into Collector)	*07281214DA-02-02*
Record Lat/Long	
Federal and State Status	*None/None*

Plant List (CA)	
Species code	*Schter*
San Diego Species List	*Schinus terebinthifolius (Brazilian peppertree), Schter*
Scientific Name	*Schinus terebinthifolius*
Observation ID (Copy and paste into Collector)	*07281148DA-01-01*
Common Name	*Brazilian peppertree*

Plant List (CA)	
Species code	*Grerob*
San Diego Species List	*Grevillea robusta (silkoak), Grerob*
Scientific Name	*Grevillea robusta*
Observation ID (Copy and paste into Collector)	*07281148DA-02-02*
Common Name	*silkoak*

Plant List (CA)	
Species code	*Ulmpar*
San Diego Species List	*Ulmus parvifolia (Chinese elm), Ulmpar*
Scientific Name	*Ulmus parvifolia*
Observation ID (Copy and paste into Collector)	*07281148DA-03-03*
Common Name	*Chinese elm*

Plant List (CA)	
Species code	*Jacmim*
San Diego Species List	*Jacaranda mimosifolia (blue jacaranda), Jacmim*
Scientific Name	*Jacaranda mimosifolia*
Observation ID (Copy and paste into Collector)	*07281150DA-04-04*
Common Name	*blue jacaranda*

Plant List (CA)	
Species code	*Fravel*
San Diego Species List	*Fraxinus velutina (velvet ash), Fravel*
Scientific Name	*Fraxinus velutina*
Observation ID (Copy and paste into Collector)	*07281152DA-05-05*
Common Name	*velvet ash*
Synonyms	*syn: Fraxinus pennsylvanica ssp. velutina (Torr.) G.N. Mill.; syn: Fraxinus velutina var. coriacea (S. Watson) Rehder*

Plant List (CA)	
Species code	*Wasrob*
San Diego Species List	*Washingtonia robusta (Washington fan palm), Wasrob*
Scientific Name	*Washingtonia robusta*
Observation ID (Copy and paste into Collector)	*07281153DA-06-06*
Common Name	*Washington fan palm*

Plant List (CA)	
Species code	*Sendid*
San Diego Species List	*Senna didymobotrya (African senna), Sendid*
Scientific Name	*Senna didymobotrya*
Observation ID (Copy and paste into Collector)	*07281153DA-07-07*
Common Name	*African senna*
Synonyms	*syn: Cassia didymobotrya Fresen.*

Plant List (CA)	
Scientific Name	*Cupaniopsis anacardioides*
Observation ID (Copy and paste into Collector)	*07281203DA-08-08*
Common Name	*prickly Russian thistle*
Synonyms	*syn: Salsola iberica (Sennen & Pau) Botsch.; syn: Salsola kali L. var. tenuifolia Tausch; syn: Salsola pestifer A. Nelson*

Plant List (CA)	
Species code	*Moralb*
San Diego Species List	*Morus alba (white mulberry), Moralb*
Scientific Name	*Morus alba*
Observation ID (Copy and paste into Collector)	*07281206DA-09-09*
Common Name	*white mulberry*

Plant List (CA)	
Species code	*Bacsal*
San Diego Species List	*Baccharis salicifolia (mulefat), Bacsal*
Scientific Name	*Baccharis salicifolia*
Observation ID (Copy and paste into Collector)	*07281207DA-10-10*
Common Name	*mulefat*

Plant List (CA)	
Species code	*Salgoo*
San Diego Species List	*Salix gooddingii (Goodding's willow), Salgoo*
Scientific Name	*Salix gooddingii*
Observation ID (Copy and paste into Collector)	*07281207DA-11-11*
Common Name	*Goodding's willow*

Plant List (CA)	
Species code	*Hirinc*
San Diego Species List	*Hirschfeldia incana (shortpod mustard), Hirinc*
Scientific Name	*Hirschfeldia incana*
Observation ID (Copy and paste into Collector)	*07281207DA-12-12*
Common Name	*shortpod mustard*
Synonyms	*syn: Brassica geniculata (Desf.) Benth.*

Plant List (CA)	
Species code	*Avebar*
San Diego Species List	*Avena barbata (slender oat), Avebar*
Scientific Name	*Avena barbata*
Observation ID (Copy and paste into Collector)	*07281208DA-13-13*
Common Name	*slender oat*

Plant List (CA)	
Species code	*Lacser*
San Diego Species List	*Lactuca serriola (prickly lettuce), Lacser*
Scientific Name	*Lactuca serriola*
Observation ID (Copy and paste into Collector)	*07281208DA-14-14*
Common Name	*prickly lettuce*

Plant List (CA)	
Species code	*Helech*
San Diego Species List	*Helminthotheca echioides (bristly oxtongue), Helech*
Scientific Name	*Helminthotheca echioides*
Observation ID (Copy and paste into Collector)	*07281209DA-15-15*
Common Name	*bristly oxtongue*
Synonyms	*syn: Picris echioides L.*

Plant List (CA)	
Species code	*Hetarb*
San Diego Species List	*Heteromeles arbutifolia (toyon), Hetarb*
Scientific Name	*Heteromeles arbutifolia*
Observation ID (Copy and paste into Collector)	*07281210DA-16-16*
Common Name	*toyon*

Plant List (CA)	
Species code	*Triter*
San Diego Species List	*Tribulus terrestris (puncturevine), Triter*
Scientific Name	*Tribulus terrestris*
Observation ID (Copy and paste into Collector)	*07281210DA-17-17*
Common Name	*puncturevine*

Plant List (CA)	
Species code	*Cyndac*
San Diego Species List	*Cynodon dactylon (Bermudagrass), Cyndac*
Scientific Name	*Cynodon dactylon*
Observation ID (Copy and paste into Collector)	*07281215DA-18-18*
Common Name	*Bermudagrass*

Plant List (CA)	
Species code	*Croset*
San Diego Species List	*Croton setiger (dove weed), Croset*
Scientific Name	*Croton setiger*
Observation ID (Copy and paste into Collector)	*07281215DA-19-19*
Common Name	*dove weed*

Plant List (CA)	
Species code	*Amaalb*
San Diego Species List	*Amaranthus albus (prostrate pigweed), Amaalb*
Scientific Name	*Amaranthus albus*
Observation ID (Copy and paste into Collector)	*07281215DA-20-20*
Common Name	*prostrate pigweed*
Synonyms	*syn: Amaranthus graecizans L., misappl.*

Plant List (CA)	
Species code	*Porole*
San Diego Species List	*Portulaca oleracea (little hogweed), Porole*
Scientific Name	*Portulaca oleracea*
Observation ID (Copy and paste into Collector)	*07281216DA-21-21*
Common Name	*little hogweed*

Plant List (CA)	
Species code	*Conarv*
San Diego Species List	*Convolvulus arvensis (field bindweed), Conarv*
Scientific Name	*Convolvulus arvensis*
Observation ID (Copy and paste into Collector)	*07281217DA-22-22*
Common Name	*field bindweed*

Plant List (CA)	
Species code	*Eupmac*
San Diego Species List	*Euphorbia maculata (spotted sandmat), Eupmac*
Scientific Name	*Euphorbia maculata*
Observation ID (Copy and paste into Collector)	*07281217DA-23-23*
Common Name	*spotted sandmat*

Plant List (CA)	
Species code	*Plalan*
San Diego Species List	*Plantago lanceolata (narrowleaf plantain), Plalan*
Scientific Name	*Plantago lanceolata*
Observation ID (Copy and paste into Collector)	*07281218DA-24-24*
Common Name	*narrowleaf plantain*

Plant List (CA)	
Species code	*Cenmel*
San Diego Species List	*Centaurea melitensis (Maltese star-thistle), Cenmel*
Scientific Name	*Centaurea melitensis*
Observation ID (Copy and paste into Collector)	*07281218DA-25-25*
Common Name	*Maltese star-thistle*

Plant List (CA)	
Species code	*Erocic*
San Diego Species List	*Erodium cicutarium (redstem stork's bill), Erocic*
Scientific Name	*Erodium cicutarium*
Observation ID (Copy and paste into Collector)	*07281222DA-26-26*
Common Name	*redstem stork's bill*

Plant List (CA)	
Species code	*Eribon*
San Diego Species List	*Erigeron bonariensis (asthmaweed), Eribon*
Scientific Name	*Erigeron bonariensis*
Observation ID (Copy and paste into Collector)	*07281224DA-27-27*
Common Name	*asthmaweed*
Synonyms	*syn: Conyza bonariensis (L.) Cronquist*

Plant List (CA)	
Species code	*Atrsem*
San Diego Species List	*Atriplex semibaccata (Australian saltbush), Atrsem*
Scientific Name	*Atriplex semibaccata*
Observation ID (Copy and paste into Collector)	*07281224DA-28-28*
Common Name	*Australian saltbush*
Synonyms	*syn: Atriplex flagellaris Wooton & Standl.*

Plant List (CA)	
Species code	*Deifas*
San Diego Species List	*Deinandra fasciculata (clustered tarweed), Deifas*
Scientific Name	*Deinandra fasciculata*
Observation ID (Copy and paste into Collector)	*07281226DA-29-29*
Common Name	*clustered tarweed*
Synonyms	*syn: Hemizonia fasciculata (DC.) Torr. & A. Gray*

Plant List (CA)	
Species code	*Disspi*
San Diego Species List	*Distichlis spicata (salt grass), Disspi*
Scientific Name	*Distichlis spicata*
Observation ID (Copy and paste into Collector)	*07281229DA-30-30*
Common Name	*salt grass*
Synonyms	*syn: Distichlis spicata var. divaricata Beetle; syn: Distichlis spicata var. nana Beetle; syn: Distichlis spicata var. stolonifera Beetle; syn: Distichlis spicata var. stricta (Torr.) Scribn.*

Plant List (CA)	
Species code	*Pluaur*
San Diego Species List	*Plumbago auriculata (Cape leadwort), Pluaur*
Scientific Name	*Plumbago auriculata*
Observation ID (Copy and paste into Collector)	*07281233DA-31-31*
Common Name	*Cape leadwort*

Appendix C

Historical Resources Technical Report

Historical Resources Technical Report

Vista Melrose Residential Project, City of Vista, San Diego County, California

SEPTEMBER 2022

Prepared for:

URBAN ADVISORY & BUILDING GROUP LLC
2777 Paradise Road, Suite 3406
Las Vegas, Nevada 89109
Contact: Brent A. Little

Prepared by:

DUDEK
605 Third Street
Encinitas, California 92024
Contact: Nicole Frank, MSHP

Printed on 30% post-consumer recycled material.

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
APN	Assessor Parcel Number
CEQA	California Environmental Quality Act
CRHR	California Register of Historical Resources
NRHP	National Register of Historic Places

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Executive Summary

The purpose of this report is to determine if the Vista Melrose Subdivision Residential Project (proposed Project) in the City of Vista, San Diego County, California would impact any historical resources pursuant to the California Environmental Quality Act (CEQA). The Project proposes to redevelop a 5.55-acre site to include 34 single-family residences, which would result in a proposed density of 6.44 dwelling units per acre. The proposed Project would also include recreational opportunities such as a tot lot and dog park.

Urban Advisory & Building Group LLC retained Dudek to complete this historical resources technical report to identify all historical resources (if any) on the Project site to determine whether the proposed Project would result in a significant impact to historical resources under CEQA. None of the buildings on the Project site are currently listed under any national, state, or local landmark or historic district programs. Two of the three parcels that comprise the Project site contain buildings that are more than 45 years of age and required evaluation as a potential historical resource:

- Property 1: 560 South Melrose Drive (APN 166-280-60-00), one church building constructed in 1958
- Property 2: 622 South Melrose Drive (APN 166-280-18-00), one single-family residence constructed in 1949

This report includes the results of a California Historical Resources Information System records search; an intensive survey of the Project site by a qualified architectural historian; building development and archival research; development of an appropriate historic context for the evaluation of the Project site; and recordation and evaluation of one church property and one single-family residential property over 45 years old for historical significance and integrity in consideration of National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and City of Vista designation criteria and integrity requirements. This report was prepared in conformance with CEQA Guidelines Section 15064.5 for historical resources and all applicable local guidelines and regulations.

A California Historical Resources Information System records search was completed by staff at the South Coastal Information Center on August 1, 2022. The records search results identify that 53 previous cultural resources studies have been conducted within 1 mile of the Project site. Of the 53 previous studies, two studies intersect the Project site. No cultural resources were identified within the Project site as a result of the overlapping studies.

As a result of Dudek's extensive archival research, field survey, record search, and property significance evaluations, no historical resources were identified within the Project site, nor were any adjacent cultural resources identified that could be indirectly impacted by proposed Project activities. The finding for built environment cultural resources for the proposed Project under CEQA is No Impact. As the proposed Project would have no impact on historical resources, no further study is required.

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1 Introduction

1.1 Project Description and Location

Project Description

The proposed Vista Melrose Residential Project (Project) consists of a residential development within the City of Vista (City) at 560 S. Melrose Drive, 622 S. Melrose Drive and APN#166-280-61-00. The approximately 5.55-acre site includes Assessor's Parcel Numbers [APNs] 166-280-60-00, 166-280-61-00, and 166-280-18-00. The properties at 560 S. Melrose Drive and APN 166-280-61-00 are both currently zoned O-P (Office Professional) and a corresponding General Plan designation of Commercial Office (CO). The property at 622 S. Melrose Drive is currently zoned R-1 (Residential) and has a corresponding General Plan designation of Medium Low Density Residential (MLD). The applicant, TTLC Vista Melrose, LLC, proposes to rezone all three properties to R-1-B (Residential) with a corresponding General Plan change to Medium Density Residential (MD). Furthermore, the applicant proposes a thirty-seven (37) lot Tentative Subdivision Map to redevelop the site to include thirty-four (34) single-family residences, which would result in a proposed density of 6.1 dwelling units per acre, a private street, private park with a tot lot and a dog park. The project will utilize the City of Vista Small Lot Subdivision standards per Vista Development Code Section 18.33 to achieve their project design. The proposed project would also include landscaping and offsite street and utility improvements.

Project Site

The Project site is located in the central portion of the City of Vista in San Diego County, CA at 560 South Melrose Drive (Property 1) and 622 South Melrose Drive (Property 2) (APNs 166-280-60-00, 166-280-61-00, and 166-280-18-00), which are currently occupied by a church and a single-family residence (Figure 1, Project Location). Two buildings over 45 years of age are located on the Project site. The approximately 5.55-acre Project site is bound by Matagual Drive to the north, South Melrose Drive to the west, commercial and residential development to the south, and residential development to the east (Figure 2, Project Site).

1.2 Project Personnel

Dudek Architectural Historian Nicole Frank, MSHP conducted a survey of the Project site, and prepared this report and the associated property significance evaluations. Dudek Architectural Historian Cait Greeley, MA, assisted Ms. Frank with research and the associated property significance evaluations. This report was reviewed for quality assurance/quality control by Senior Architectural Historian Allison Lyons, MSHP. All authors meet the Secretary of the Interior's Professional Qualifications Standards (36 CFR Part 61) for architectural history. Preparers' qualifications are located in Appendix A.

1.3 Regulatory Framework

Federal

National Register of Historic Places

Although there is no federal nexus for this Project, resources were evaluated in consideration of National Register of Historic Places (NRHP) designation criteria.

The NRHP is the United States' official list of districts, sites, buildings, structures, and objects worthy of preservation. Overseen by the National Park Service under the U.S. Department of the Interior, the NRHP was authorized under the National Historic Preservation Act, as amended. Its listings encompass all National Historic Landmarks and historic areas administered by the National Park Service.

NRHP guidelines for the evaluation of historic significance were developed to be flexible and to recognize the accomplishments of all who have made significant contributions to the nation's history and heritage. Its criteria are designed to guide state and local governments, federal agencies, and others in evaluating potential entries in the NRHP. For a property to be listed in or determined eligible for listing, it must be demonstrated to possess integrity and to meet at least one of the following criteria:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
B. That are associated with the lives of persons significant in our past; or
C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. That have yielded, or may be likely to yield, information important in prehistory or history.

In addition to these basic evaluation criteria, the NRHP outlines further criteria considerations for significance. Moved properties; birthplaces; cemeteries; reconstructed buildings, structures, or objects; commemorative properties; and properties that have achieved significance within the past 50 years are generally not eligible for the NRHP. The criteria considerations are exceptions to these rules, and they allow for the following types of resources to be NRHP eligible (NPS 1995, p. 25):

A a religious property deriving primary significance from architectural or artistic distinction or historical importance;
B a building or structure removed from its original location, but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event;
C a birthplace or grave of a historical figure of outstanding importance if there is no appropriate site or building directly associated with his or her productive life;
D a cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, from association with historic events;

E a reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived;

F a property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own exceptional significance; or

G a property achieving significance within the past 50 years if it is of exceptional importance.

Once the significance of a resource has been determined, the resource then must be assessed for integrity. Integrity is 1) the ability of a property to illustrate the history and 2) possession of the physical features necessary to convey the aspect of history with which it is associated (NPS 1995, p. 44). The integrity evaluation is grounded in understanding a property's physical features and how they relate to the property's significance. Historic properties either retain integrity (that is, convey their significance), or they do not. To maintain integrity, a property will always possess several, and usually most, of the seven aspects of integrity (NPS 1997, pp. 44-45):

1. **Location** is where the historic property was constructed or where the historic event occurred.
2. **Design** is the combination of elements that create the form, plan, space, structure, and style.
3. **Setting** is the physical environment of a historic property.
4. **Materials** are the physical elements combined or deposited during a particular period and in a specific pattern or configuration to form a historic property.
5. **Workmanship** is the physical evidence of crafts of a particular culture or people during any period in history or prehistory.
6. **Feeling** is the property's expression of a particular period's aesthetic or historic sense.
7. **Association** is the direct link between an important historic event or person and a historic property.

State

California Register of Historical Resources

In California, the term "historical resource" includes but is not limited to "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" (California Public Resources Code Section 5020.1(j)). In 1992, the California legislature established the 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" (California Public Resources Code Section 5024.1(a)). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the NRHP, enumerated below. According to California Public Resources Code 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.

In order 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 the 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 below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- California Public Resources Code Section 21083.2(g) defines "unique archaeological resource."
- California Public Resources Code 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 an historical resource.
- California Public Resources Code Section 21074(a) defines "tribal cultural resources."
- California Public Resources Code 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.
- California Public Resources Code 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).

More specifically, 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" (California Public Resources Code 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 California Public Resources Code Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code 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 (California Public Resources Code 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); California Public Resources Code Section 5020.1(q)). In turn, CEQA Guidelines Section 15064.5(b)(2) states the significance of an historical resource is materially impaired when a project:

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 of Historical Resources; 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 Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, 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 of Historical Resources as determined by a lead agency for purposes of CEQA.

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 (California Public Resources Code Section 21083.2[a], [b], and [c]).

California Public Resources Code 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 non-unique archaeological resources are generally not considered a significant environmental impact (California Public Resources Code Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as tribal cultural resource (California Public Resources Code Section 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 below, these procedures are detailed in California Public Resources Code Section 5097.98.

Local

City of Vista General Plan

The City of Vista General Plan (2030) affords consideration for the preservation of cultural resources. The City's Resource Conservation and Sustainability Element reflects the City's commitment to conserve, preserve, and enhance its valuable resources, and its recognition of the importance of taking an overall sustainable and green approach to decision - making. It also acknowledges the interrelationship of all the other General Plan elements in carrying out the City's goal of promoting sustainability and conserving its resources.[1] Following are relevant goals and policies of the Cultural, Historical, and Paleontological Element of the City's General Plan (paraphrased):

RCS Goal 11: Continue to preserve and protect places, buildings, and objects that embody the City's social, cultural, commercial, and agricultural history.

RCS Policy 11.1. Continue to utilize historical resources, such as the Rancho Buena Vista Adobe, for school programs, community education, and events; and coordinate programming with other historic sites.

RCS Policy 11.2. Continue to preserve Vista's historic adobes and nationally registered and significant historic buildings, such as the Rancho Guajome Adobe and the Braun House. Consider national and local historic designations for eligible City-owned properties.

RCS Policy 11.3. Support preservation of historical resources, including providing for adaptive reuse and tax incentives where appropriate.

RCS Policy 12.2. In collaboration with NAHC and the San Luis Rey Band of Mission Indians, adopt procedures for protecting significant archeological features, and apply to projects requiring discretionary City approval.

RCS Policy 12.3. Ensure that the San Luis Rey Band of Mission Indians is notified of any proposed discretionary planning or grading applications affecting lands with potential archaeological resources.

RCS Policy 12.4. If significant Native American artifacts are discovered during pre- construction or construction phases of a discretionary project or during the implementation a grading permit, the first priority shall be a) to avoid any further disturbance of those areas by re- designing the proposed development or project, and b) to have those areas placed into protected open space via an open space easement or similar protective measure. If avoidance is not feasible based on consultation with the Most Likely Descendant of such artifacts, appropriate mitigation shall be required. Any discovered Native American artifacts shall be returned to their Most Likely Descendant and repatriated at the earliest opportunity.

[1] Please note that as entered in the City's General Plan, the numbering of RCS Policies skips from 11.3 to 12.3, with no overall RCS Goal 12.

RCS Policy 12.5. If Native American human remains and /or associated grave goods are found during any of the activities identified in RCS Policy 12.4, the first priority shall be a) to avoid any further disturbance (i.e., grading, development) of those areas in which they are found, and b) to have the remains and /or associated grave goods preserved in place via an open space easement or similar protective land use measure. The second priority shall be that the Most Likely Descendant of the remains and /or associated grave goods, as determined by NAHC, must also have the opportunity to recommend other culturally appropriate treatment.

RCS Goal 13: Recognize the potential for paleontological resources and provide for mitigation programs to ensure collection and salvage of fossil materials.

RCS Policy 13.1. Adopt procedures to provide pre- construction mitigation.

RCS Policy 13.2. Adopt procedures to mitigate impacts during construction, including requiring monitoring of excavation operations and salvage programs.

City of Vista Municipal Code – Historic Preservation

According to Section 15.12.060 of Ordinance 89.7 amended in September 2009 of the City of Vista Municipal Code, the City of Vista Register of Designated Historic Resources shall develop over time as resources worthy of historic designation are identified, evaluated, and registered through the application and review procedures outlined in Section 15.12.070.

A. Potential historic resources shall only be considered for inclusion in the Register upon formal application by the legal owner of the potential resource.
B. A potential resource will then be considered for inclusion in the register on the basis of one or more of the following:
    1. Its association with events that have made a significant contribution to the broad patterns of local or regional history or the cultural] heritage of California of the United States;
    2. Its association with the lives of persons important to local California or national history;
    3. Its embodiment of the distinctive characteristics of a type, period, region or method of construction; its representation of the work of a master; or its signification of high artistic values;
    4. Its potential] to yield information important to the prehistory or history of the local area, California or the nation.
C. In addition to meeting one or more of the above criteria, a potential resource must also retain enough of its historic character or appearance (i.e., integrity) to be recognizable as a historic resource and to convey the reasons for its significance.
D. The evaluation of potential historic resources shall be guided by a Historic Context Statement, as adopted and updated pursuant to Section 15.12.060(B)(3). Prepared in accordance with the Secretary of the Interior's Guidelines for Preservation Planning, the Historic Context Statement shall assist decision-makers in determining whether or not candidates for historic designation are representative of property types associated with locally significant themes and patterns of development.

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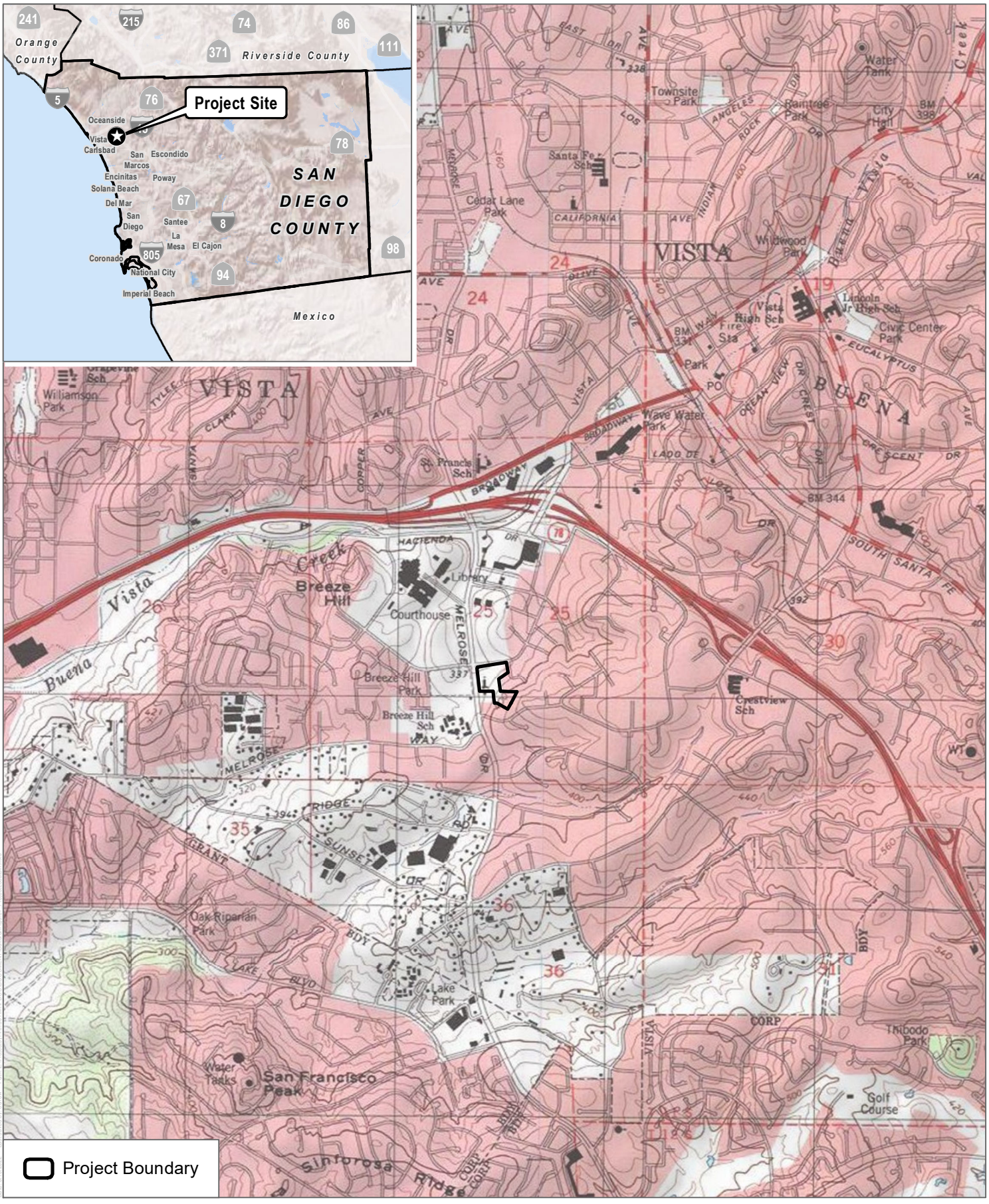

SOURCE: USGS 7.5-Minute Series San Luis Rey Quadrangle
Township 11S; Range 4W; Section 25

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Vista Melrose

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SOURCE: Bing Imagery 2021, Open Street Map

DUDEK

0 50 100 Feet

FIGURE 2

Project Site

Vista Melrose

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2 Background Research

2.1 South Coastal Information Center Record Search

Dudek conducted a California Historical Resources Information Systems (CHRIS) records search for the Project site and a 1-mile buffer at the South Coastal Information Center (SCIC) at San Diego State University on August 1, 2022. The records search results indicate that 53 previous cultural resources studies have been conducted within 1 mile of the Project site. Of the 53 previous studies, two studies intersect the Project site and are listed in Table 1 below. These studies consist of a historic resource survey and a cultural resources evaluation for a master plan. None of the previous cultural resources studies identified any resources within the Project site. The records search is presented in its entirety in the archaeological report prepared by Dudek in 2022 and titled *Negative Cultural Resources Phase I Letter Report for the Vista Melrose Residential Project, City of Vista, California.*

Table 1. Reports Intersecting the Project Area

Report Number	Authors	Date	Title
SD-11228	Marben-Laird Associates	1987	Historic Resource Survey, A Project of the City of Vista, California
SD-11524	Brian F. Smith and Associates	2007	A Cultural Resources Evaluation for the Vista and Buena Sanitation District 2007 Sewer Master Plan Update

2.2 Building Development and Archival Research

Building development and archival research were conducted for the Project site in an effort to establish a thorough and accurate historic context for the significance evaluations, and to confirm the building development history of the Project site and associated parcels.

City of Vista Public Records Access Website

Dudek reached out to City of Vista staff on August 3, 2022. Dudek followed up and spoke with City of Vista staff on August 9, 2022. Staff emailed the Public Records form, which Dudek submitted to the City Clerk on August 9, 2022. On August 15, 2022, City of Vista City Clerk, Kathy Valdez, sent all available building permits for the Project site. All available building permit records were used in the preparation of the historic context and significance evaluations. According to the City of Vista City Clerk, Kathy Valdez, no permit records were available for Property 2, 622 South Melrose Drive.

San Diego County Website

Dudek reached out to the County of San Diego to obtain digitized building permits on August 3, 2022. Dudek then emailed the County staff on August 5, 2022. Staff indicated that no permits were found for the Project site. Staff advised Dudek to check online Citizen Access Portal. Dudek reviewed the information in the online Citizen Access Portal and no records for the two properties were found.

San Diego County Assessor

Dudek obtained San Diego County Assessor for the Project site in August 2022. This assessor data gave information about construction dates and current owners for properties on the Project site.

Vista City Library

Dudek contacted the Vista City Library on August 16, 2022, and on August 17, 2022. Library staff emailed Dudek, instructing Dudek to contact the Vista Historical Society. Staff performed city directory research to identify prior property owners for the two properties on the Project site, but no listings were found.

Historical Newspaper Review

Dudek reviewed historical newspapers from Vista and surrounding cities in an effort to understand the development of the City of Vista and the Project site. These documents were used in the preparation of the historic context and significance evaluations.

Sanborn Fire Insurance Maps

Dudek reviewed historical Sanborn Map Company fire insurance maps covering the City of Vista as part of the archival research on the Project site, but research revealed there was no Sanborn coverage for Project site.

Topographic Maps and Historical Aerial Photographs

Dudek consulted historic topographic maps (earliest available from 1893) and aerial photographs to understand the development of the Project site and surrounding properties. A review of historical topographic maps and aerial photographs was conducted as part of the archival research effort for the following years: T1893, T1987, T1901, T1907, T1911, T1920, T1925, T1931, 1933, 1938, T1939, 1946, T1947, 1947, T1949, 1953 (see Exhibit 1), T1955, T1961, 1963, 1964, T1966, 1967, T1969, T1971, 1978, T1978, 1980 (see Exhibit 1) , 1981, 1982, 1983, 1984, 1985, 1986, 1988, 1989, 1990, 1991, 1993, 1994, 1995, 1996, 1997, 1998, 1999, T2000, 2000, 2001, 2002, 2003, 2005, 2009, 2010, T2012, 2012, 2014, T2015, 2016, T2018, and 2018 (NETR 2022; UCSB 2022). Section 3.2, History of the Project Site, provides a history of the Project site using this information.

Historic Resources Survey, Vista, California, from 1987

Dudek reviewed the 1987 Historic Resources Survey for the City of Vista prepared by Marben-Laird Associate. No cultural resources on or directly adjacent to the Project site were documented in the survey.

3 Historic Context

3.1 Historical Overview of the City of Vista

The City of Vista was within the lands of Mission San Luis Rey during the Spanish colonial period of the eighteenth and early nineteenth century. Following Mexican independence from Spain in 1821, the area became part of Mexico. Secularization of the missions began in 1833, and the Mission's land holdings were distributed among private citizens. Mission San Luis Rey was divided into six ranchos in the 1830s and 1840s: Santa Margarita, Las Flores, Guajome, Agua Hedionda, Buena Vista, and Monserrate. Rancho Aqua Hedionda, Rancho Buena Vista, and Rancho Guajome became the base of what makes up today's City of Vista. Rancho Guajome, owned by the Cave Couts family, comprised 2,200 acres. It was known for its early irrigation system. Rancho Buena Vista was created in 1845. The Rancho Buena Vista Adobe is now located in a city park at the center of Vista. Rancho Aqua Hedionda consisted of 2,600 acres and is now a county park and museum (City of Vista 2021).

In 1858, John Butterfield established the Butterfield Stage Route along the Southern Emigrant Trail, delivering mail from St. Louis to San Francisco (Cato 2000). The Butterfield route also provided an easier mode of transportation for settlers coming into Southern California, particularly the area around Vista (Van Horn 1974). The start of the Civil War shut down the Butterfield Stage Route after a short 3-year stint, as it passed through Confederate states, and settlement in the area slowed. By the 1870s, ranching had become prosperous in the Vista area (Van Horn 1974).

In 1860, Francis Hinton hired Robert "Uncle John" Kelly as part owner and Major Domo of Rancho Aqua Hedionda. Kelly, originally from the Isle of Man, was a bit of a local legend and a well-known rancher in the southwest. This partnership would lead to Kelly's eventual ownership of the Rancho after Hinton's death in 1870 (Harmon 1961). Kelly granted a coastal right of way for the San Diego Railway, which allowed for San Diego to be connected to all points north. This land along with the land of John Frazier would soon become popular train stops for fresh water on the routes north (Harmon 1967).

One of Vista's early settlers was John Frazier, who opened Vista's first post office in 1882 and gave the city its name. In 1886, the Vista Land Company acquired land from the ranchos for the planning of the City of Vista. By the early 1900s, the center of Vista was subdivided. The Vista Inn and a Santa Fe Railroad train depot, connecting Oceanside to Escondido, were constructed. However, the scarcity of water hindered the growth of Vista in the early 1910s, with a slow increase in population consisting of 1,000. To remedy water concerns, the Vista Irrigation District was formed in 1923, and an aqueduct was built from Lake Henshaw Reservoir. By 1926, Vista had established its own water supply. The town also had a newspaper, the Vista Press. By 1928, the First National Bank was built (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

Residences emerged in the 1920s and 1930s. The population of Vista in the 1930s increased to 10,000. Further agricultural development took place after the construction of an aqueduct increased irrigation and facilitated the growth of crops such as tomatoes, citrus fruit, and avocados. By 1948, Vista was known as the "Avocado Capitol of the World" (City of Vista 2021). That same year, the Avo Theatre opened downtown. After World War II, the population continued to swell. To meet the needs of the growing population, agricultural land was converted into residential areas in the 1950s and 1960s. During that time, the downtown area declined with the introduction of strip malls away from the city center (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

In 1963, Vista became incorporated as a city with a population of 19,000 (Vista Press 1963). By the early 2000s, redevelopment of the downtown area, known as Vista Village, took place and spurred attraction to Vista's downtown. The population of Vista has grown to over 95,000 today (Vista Historical Society and Museum 2022).

3.2 History of the Project Site

The first available topographic map for the area dates to 1893. At the time, Project site and the surrounding land was undeveloped. To the direct east of the Project site were the Southern California Railroad tracks. By 1901, the railroad was renamed Southern California Railroad, Escondido Railroad, with the surrounding area undergoing no noticeable changes. The first available aerial photograph dates from 1933. The Project site remained undeveloped. Surrounding the Project site were small homesteads and agricultural land. The adjacent railroad tracks were renamed again in the 1949 topographic map from the Southern California Railroad, Escondido Railroad, to the Atchison, Topeka, and Santa Fe (ATSF) Railway. From the 1933 aerial to the 1947 aerial, the Project site and surrounding land remained relatively unchanged (NETR 2022; UCSB 2022).

By 1953, there was an increase in residential development in and around the Project site. The single-family residence on Property 2, 622 South Melrose Drive, was constructed by this time as a square in plan, side gabled roof building. A long driveway connected Melrose Drive to Property 2. Development on and around the Project site continued to increase through the 1960s. By 1964, Property 1, 560 South Melrose Drive was constructed as an L-shape in plan, religious building with a cross gable roof. The southern portion of the building had a steeply pitched roof. Property 1 was accessed by both Melrose Drive from the west and Matagual Drive from the north and was surrounded by an unpaved parking lot. By 1964, a square garage was constructed adjacent to the southern elevation of the residential building on Property 2 (NETR 2022; UCSB 2022).

By the 1960s, the surrounding agricultural land was generally replaced with single-family residential development. A sign for the First Church of Religious Science was installed at Property 1 in 1970. By 1978, the large-scale North County Regional Center complex was constructed directly northwest of the Project site, replacing agricultural land. By 1980, an addition was constructed along the primary (west) elevation of Property 1 and the surrounding parking was paved.

Residential development continued to increase east of the Project site in the late 1980s. By 1989, most of the remaining surrounding agricultural land was developed. A large-scale apartment complex was constructed west of the Project site. A non-illuminated sign was installed on Property 1 in 2003. By 2009, the open land to the Project site's west, south, and north had been developed with commercial properties. In the early 2010s, the ATSF Railway tracks became the Sprinter light rail tracks. (NETR 2022; UCSB 2022).

Exhibit 1. 1953 aerial of the Project site (outlined in red) with Property 2 in the bottom right corner (left) compared to the 1980 aerial of the Project site (outlined in red) displaying the construction of Property 1 and the garage at Property 2 (right).

Source: NETR 2022.

Property 1: 560 South Melrose Drive

After World War II, the population of San Diego boomed as did the construction of new churches. The number of churches in Vista grew with its population. In the late 1950s, three new churches in Vista were planned or in the planning stages, including the Church of Religious Science (Property 1), the Church of Jesus Christ of Latter-Day Saints on Foothill Boulevard, and the Unity Truth Church to be located at 352 West Lando de Loma (BT 1959).

In March 1958, plans for a new church building on Melrose Drive in Vista were announced by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Prior to the construction of the Vista church, the congregation held its meetings at the Chapel of the Pines in Oceanside. Rev. Dr. Featherstone stated that plans for the building included two units, one that would seat 600 people and the other that would seat 200 people. The Vista building was the first Church of Religious Science edifice in North County San Diego. Their doctrine emphasized the power of the mind for healing and fulfillment of life and was based on the teachings of Ernest Holmes, who founded the Institute of Religious Science and Philosophy in Los Angeles in 1927 (CFSL 2022).

Vista contractor J. Edward Esmay was employed to draw up plans for the church to be located at Property 1, 560 South Melrose Dive (SDU 1958a). Archival research revealed little information on Esmay's career other than his 1970 design for a residence located at 520 Pointing Rock Drive, Borrego Springs. In May 1958, Rev. Dr. Featherstone announced that Vista contractors Betraun & Betraun (also known as A.E. Betraun & Sons Construction Company) were awarded a $33,000 contract to construct the new Church of Religious Science in Vista. The company constructed many community buildings in Vista, including the former Vista Irrigation District

headquarters located at 202 West Connecticut Avenue (Vista Historical Society and Museum 2018). The smaller unit was constructed first and used as a training area upon the completion of the larger unit, an A-frame chapel. Included in the building plans were a chapel, study library, restrooms, and a fully equipped kitchen (SDU 1958b).

The new Church of Religious Science was completed in August 1958 with its first sermon held in early September. The building cost $40,000 to complete, $7,000 more than its original contract and included seating accommodations for 300 rather than the anticipated 200. The building was planned to be the first of three main buildings erected on the site but appears to be the only building ever constructed (SDU 1958c). Dr. Ernest Holmes, dean and founder of the Church of Religious Science and president of the Institute of Religious Science at Los Angeles spoke at the Vista church's dedication. Rev. Dr. Featherstone also spoke during the dedication ceremony and observed "Friendship Day" during the service (SDU 1958d). Rev. Dr. Featherstone's son, John Featherstone, led the church's youth group, which was organized by the church in connection with the National Organization of Youth in Truth, based out of Los Angeles (SDU 1958e). In 1959, the Church's Board of Trustees officially changed its name from the Oceanside-Vista Church of Religious Studies to the First Church of Religious Studies, Vista due to the church serving not only Oceanside and Vista but multiple other North County San Diego cities (TA 1959).

Throughout the 1960s into the 2000s, the church hosted workshops, youth activities, sermons, support groups, and meditations. In 1961, the Church of Religious Science faith group opened an additional church in Chula Vista located at 277 Church Street. In 1976, the First Church of Religious Science, Vista had a 700-square foot-addition made to its primary (west) elevation, which was used as a foyer and administration offices. The addition obstructed the view of the church's A-frame chapel (City of Vista). The building continued to be used by the Church of Religious Science into the 2000s. By 2009, the building became the Center for Spiritual Discovery, a faith group that held services daily and housed a bookstore. By 2015, the property had become the Thriving Life Church, a non-denominal church, which it remained into 2022.

Property 2: 622 South Melrose Drive

In 1949, the single-family residence at Property 2, 622 South Melrose Drive was constructed (San Diego County Assessor). The residence appears in the 1953 aerial image with a square plan and side gabled roof. Historic newspaper research yielded no information about the original owner of the property and it is not known if the property was originally constructed as part of agricultural development. In 1964, a garage was constructed on the southern end of the property (NETR 2022). At this time, surrounding agricultural land was developed for residences. Barbara Jean Richtelman resided at Property 2 in 1965. Historic research yielded limited information about Ms. Richtelman. Historic aerial images show that there have been no noticeable changes to the property since the 1980s. By 1999, the property had become a rental property. The building continues to function as a residence under ownership of Suppa Family Trust. No information was found about Suppa Family Trust as it relates to the property (TA 1965; NCT 1999; NETR 2022; UCSB 2022).

3.3 Present Architectural Styles and Property Types

Mid-Century Modern, A-Frame Subtype (1945–1965)

The Mid-Century Modern style evolved from the pre- World War II International Style. The roots of the style can be traced to early Modernists like Richard Neutra and Rudolph Schindler, whose work in the Southern California in the 1920s and 1930s inspired "second generation" postwar Modern architects like Gregory Ain, Craig Ellwood, Harwell

Hamilton Harris, Pierre Koenig, Raphael Soriano, and many more. These postwar architects developed a regional style, fostered in part by Art and Architecture magazine's pivotal Case Study Program (1945–1966). Postwar Modernism was an antidote to what architects saw as the sterility of earlier Modern architecture that was characterized by geometric forms, smooth stucco wall surfaces, and lack of decorative ornament. Mid-Century Modernism adapted these elements to the local climate and topography, which in Southern California meant the use of wood post-and-beam construction and the incorporation of seamless indoor and outdoor spaces. The style also experimented more with shape, color, and materials. Mid-Century Modernism is often characterized by a clear expression of structure and materials, large expanses of glass, and open interior plans.

In many types of properties, the Mid-Century Modern style fit the postwar need for efficiently built, moderately priced construction. Thus, the style became particularly attractive because its non-ornamental appearance and use of standardized, prefabricated materials was inexpensive to reproduce and permitted quick and economical construction for the multitude of buildings demanded after World War II. The cost-effective nature of the style and the ability to mass-produce Mid-Century Modern building materials like concrete, wood, steel, and glass made it the perfect style for growing cities like San Diego. As a result, it became the predominant architectural style in the postwar years. The Mid-Century Modern movement in San Diego as in other cities in the United States, was characterized by simplistic and clear uses of materials and structural components, open interior planning, and large expanses of glass. (SFPD 2010; City of San Diego 2007).

Property 1 is an example of a sub-type of Mid-Century Modern style known as the A-frame. A-frame buildings are defined by their steeply-pitched triangular roof forms that extend partway or entirely to the ground and also serve as exterior walls. The term "A-frame" describes both a method of construction and an architectural style that is associated with the postwar Modern movement. A-frame buildings are a clear expression of Modernism and its prevailing emphasis on producing buildings that were rational, efficient, and stripped of stylistic excess. They are typically expressed in the context of residential architecture, but because the characteristically expressive, jutting roofline of the A-frame draws the eye A-frame buildings lent themselves well to businesses that aspired to draw the attention of passing motorists. (Randl 2004, pp. 11-15; ARG et. al. 2021. pp. 167-176).

Elements of the A-frame idiom were sometimes incorporated into the design of postwar churches. A number of theories have been posited as to why the A-frame and its emphatic roof peak resonated so strongly with churches and churchgoers at this time, some of which are symbolic and others that are more pragmatic. To some, the A-frame's triangular form stood as "a three-dimensional representation of the Holy Trinity." Others interpreted the A-frame as a modern-day take on the Gothic cathedral, boiled down to its essential characteristics of bold, vertical volumes. On a more practical level, churches needed new, larger buildings to house more congregants, and the A-frame offered a way for these churches to create dramatic, expressive spaces with limited resources. By the 1960s it was common for churches to utilize the A-frame to create soaring sanctuary spaces. Due to the somewhat difficult nature of demising interior spaces within the triangle, other functions such as parish halls, kitchens, and offices tended to be located in a wing projecting from the A-frame. Often, these churches and ecclesiastical buildings included other expressionistic characteristics that are more closely associated with the Mid-Century Modern style, though they clearly exhibited elements of the A-frame. (Randl 2004, pp. 137-138; ARG et. al. 2021. P. 173).

Characteristics of the A-Frame subtype of Mid-Century Modern style include the following:

- One story in height
- Triangular shape
- Strong right angles and simple cubic forms

- Steeply sloping roof that extends all or partway to the ground on two sides
- Deep-set eaves
- Stucco, wood (often vertical), or corrugated siding
- Few vertical wall surfaces
- Large windows or groups of windows on front or rear façades

Property Type: Mid-Century Religious Buildings in San Diego

The design of churches during the 1950s in San Diego was becoming more modern. Church architects and builders began incorporating modern methods of construction and materials. Materials such as laminated wood arches and trusses, reinforced concrete, steel, and glass led to new possibilities in shape and form. Additionally, combining modern building materials such as glass and stone veneer allowed for the simple, rectangular gathering space of most religious buildings to look contemporary in design. Despite the use of modern materials, churches were still identifiable as religious buildings through the use of recognizable symbols and forms, such as the cross, steeples, stained glass, and, on the interior, seating arranged in wood pews. Noted examples of this period of modernization in religious building design in San Diego included Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955) (Smith 1958).

By the mid-1960s, church architecture was undergoing a "Modern Renaissance" with new designs being bold, dramatic, different, and varied. After a decade of slow progress, churches embraced Modern design, becoming round, hexagonal, and freeform with abstract expressions of traditional symbolism. Angular shapes became more common with sweeping rooflines either upward or inward like a shell. These new concepts were accepted by many faiths including Catholics, Episcopalians, Lutherans, Presbyterians, Methodists, Religious Science, and Baptists who looked to break from old traditional architectural styles. Architecture became a way for congregations to express their theology in modern forms, new materials, new lighting effects, and new acoustical treatments. The First Church of Religious Science in Vista followed this trend with its Mid-Century Modern design featuring angular roof forms. Churches in San Diego that fully embraced the use of Modern styles for religious architecture included First Lutheran Church of Vista (c. 1966), St. Rose of Lima Church in Chula Vista (1966), First Congregational Church of Lemon Grove (now Shiloh Baptist Church) (1963), St. Paul's Methodist Church in Coronado (1963), and the Church of Jesus Christ of Latter-Day Saints in University City (1966) (Smith 1966; SDU 1968).

Ranch Style (1935–1975)

Ranch-style houses in California reflect a national trend of fascination with the "Old West" and were a building style of choice for tract housing. Ranch homes were originally developed in the western and southwestern United States, but quickly gained national popularity through the dissemination of do-it-yourself manuals and plans in national magazines such as *Sunset, Better Homes And Gardens,* and *House Beautiful.* Later, Ranch houses were popular as a custom-built type of housing, which was especially popular in the later 1940s and 1950s. During the 1940s, the style was one of the few built under Federal Housing Administration financing guidelines. Ranch houses built in the 1940s were smaller in size than later versions after builders lobbied for higher loan limits and Federal Housing Administration guidelines were revised in the 1950s. In San Diego and the surrounding cities such as Vista, examples of the style were abundant as it became the most prevalent type of post-World War II suburban tract-style housing (McAlester 2013; City of San Diego 2007).

Ranch style houses are usually a one-story, single-family residence. Houses designed in this architectural style include several identifying characteristics such as rambling, elongated plans; a horizontal emphasis; general asymmetry; free-flowing interior spaces; and a designed connection to the outdoors. Features such as low-pitched roofs with wide eaves, a combination of cladding materials including board-and-batten siding, brick and stone chimneys, and large picture windows were commonly applied and evoked an aesthetic that was reminiscent of these past architectural traditions. Decorative features such as wood shutters and dovecotes were often added to enhance the rusticated appearance of Ranch houses (Grimes and Chiang 2009; Horak et.al. 2015).

Character-defining features include:

- Rambling, elongated plans with a horizontal emphasis
- One to two stories in height
- Low-pitched gabled or hipped roofs with overhanging, open eaves
- General asymmetry
- Free-flowing interior spaces
- Designed connection to the outdoors
- Cladding featuring stucco, board and batten, shingles, clapboard, or a combination of materials
- Brick or stone chimneys details
- Attached garages often linked to residence by breezeways
- Stone, brick, board and batten, clapboard, or horizontal wood siding used for accent on walls, secondary cladding types, and planters
- Functional and non-functional shutters details as trim around windows
- Fenestration may include a picture window

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4 Field Survey

4.1 Methods

An intensive-level survey and archival research were conducted to identify any potential built environment historical resources on the Project site. The survey was conducted on August 4, 2022, by Dudek architectural historian Nicole Frank, MSHP. The survey involved walking all portions of the Project site and documenting the Project site with detailed notes and photographs. Two buildings were surveyed on the Project site including one church building, (Property 1, 560 South Melrose Drive), and one single-family residence (Property 2, 622 South Melrose Drive). Dudek documented the buildings' elevations, character-defining features, spatial relationships, and setting, and noted any observed alterations.

4.2 Results

The Project site contains two buildings on two properties over 45 years old that were identified as requiring recordation and evaluation for historical significance. The Project site was evaluated as two properties, Property 1, 560 South Melrose Drive (APN 166-280-60-00) and Property 2, 622 South Melrose Drive (APN 166-280-18-00). Two total buildings over 45 years of age are located on the Project site (one church and one single-family residence) and were evaluated for historical and architectural significance as two separate properties due to their separate development histories.

The two properties within the Project site are described and evaluated for historical and architectural significance in Section 5, Significance Evaluations. A State of California Department of Parks and Recreation Series 523 (DPR) form for the two properties within the Project site are in Appendix B. Department of Parks and Recreation Form Set.

Properties Evaluated

- Property 1: 560 South Melrose Drive (APN 166-280-60-00), one church building constructed in 1958
- Property 2: 622 South Melrose Drive (APN 166-280-18-00), one single-family residence constructed in 1949

4.3 Built Environment Field Survey Result

Property 1: 560 South Melrose Drive

Property Description

Property 1 is located within a commercial corridor of a residential neighborhood on the eastern side of Melrose Drive at 560 South Melrose Drive (APN 166-280-60-00). The parcel is rectangular in shape and features a single-story Mid-Century Modern style church with an L-shape plan on the south end of the property. An asphalt parking lot that surrounds the church. The building is comprised of four distinct masses separated by the shapes of their roofs. An asphalt sheet clad low-pitched, side-gabled roof with a slightly lower plain at the northmost edge and overhanging closed eaves tops the first mass, while an asphalt sheet clad low-pitched side-gable roof with overhanging closed eaves covers the second mass. The third and fourth mass form the chapel and its entrance. The third mass features a flat roof with a raised overhanging-parapet clad with vertical wood slats and sheet-metal coping, and the fourth mass – the chapel - includes a composition shingle covered steeply-pitched front-facing gable roof with overhanging closed eaves clad in stucco.

The primary (west) elevation features a combination of cladding including concrete masonry units on the first mass, vertical wood-board siding on the second mass, painted rusticated concrete masonry units on the third mass, and smooth stucco on the fourth mass. A painted wood-lattice screen obscures the fenestration on the first mass, and a glass and metal frame double-door with a multi-light transom window sits between the first and second masses. The second mass features a group of wood sash fixed-light and jalousie windows and grouped double-hung windows. The main entrance is a wood multi-panel double-door with stained glass panels is hidden from view on the third mass. Fenestration on the third mass includes a small window obscured by metal security bars on the southside of the building, and within the gable of the fourth mass is a stucco framed cross shape with stained glass that extends the full height of the mass (Exhibit 2).

The south elevation is comprised of the third and fourth masses featuring a combination of painted rusticated concrete masonry unit siding, smooth stucco siding with three simple buttress supports, and vertical wood-board siding. Fenestration includes a steel sash sliding window with security bars grouped with a steel sash, full-height, three-light, double-hung window with security bars, and a grouping of clerestory stained-glass casement windows. One multi-paneled door is accessible from the east side of the elevation (Exhibit 3).

The east (rear) elevation includes the fourth, second, and first masses with a combination of smooth stucco siding and vertical wood-board siding (Exhibit 4). A wood-sash, stained glass, fixed port-window is centered under the gable of the fourth mass and a single-panel door on the northmost side. On the second mass, a metal frame screen door, centrally grouped steel sash double-light casement windows, and wood framed glass double-door are obscured by a tall concrete fence encompassing a rear patio space. Additionally, the first mass features a single-panel door with a jalousie window, a double-door flanked by steel sash triple-light double-hung windows and two projecting rectangular masses each containing a single panel door, and another triple-light double-hung window on the northmost side of the elevation (Exhibit 5).

The north elevation consists of the fourth and first masses with a combination of smooth stucco siding and vertical wood board siding (Exhibit 6). The concrete wall obscures the wood framed glass double-door with wood sash side-lights and a single-panel door on the fourth mass. The first mass does not include windows or doors, but instead features a stone fireplace centered on the elevation.

Identified Alterations

The following exterior alterations were identified through a review of property record research and/or during the survey conducted on August 4, 2022:

- 1970: installation of a sign for First Church of Religious Science (Permit #22-533)
- 1976: frame and masonry addition for administration and foyer west elevation, 700 square feet (Permit #76-156)
- 1979: construction masonry block wall (Permit #790747)
- 2003: sign permit – installation of double faced, non-illuminated monument sign (Permit #B03-0990)
- 2006: reroofing with composition shingles (Permit #B06-1022)
- Rear door infill with vertical wood-board (date unknown)

Character-Defining Features Reflecting Mid-Century Modern Style

- Cantilevered overhangs
- Articulated primary facade

- Wood siding
- Stacked Roman brick and stone used as accent material
- Expressed post and beam construction
- Strong right angles and simple cubic forms
- Projecting vertical elements
- Large steel-framed windows
- Earth tone painted finish
- Overhanging sunshades

Exhibit 2. Primary (east) elevation and south elevation, view looking northeast (DSC02673).

Source: Dudek 2022.

Exhibit 3. South elevation, view looking northeast (DSC02681).

Source: Dudek 2022.

Exhibit 4. Rear (east) elevation, view looking west (DSC02707).

Source: Dudek 2022.

Exhibit 5. The first mass on the rear (east) elevation, view looking west (DSC02751).

Source: Dudek 2022

Exhibit 6. North elevation, view looking south (DSC02622).

Source: Dudek 2022

Property 2: 622 South Melrose Drive

Property Description

Property 2 is located within a residential neighborhood on the eastern side of Melrose Drive at 622 South Melrose Drive (APN 166-280-18-00) and is accessed by an unnamed road perpendicular to Melrose Drive between Matagual Drive and Las Palmas Drive. The parcel is trapezoidal in shape and most of the site is open with some shrubbery and trees near the single-family residence on the northeast side of the property.

The single-story Ranch style residence was constructed in 1949 with an irregular plan. A shed and garage were constructed adjacent to the south elevation between 1953 and 1964. The residence, garage, and shed have low-pitched side-gable roofs covered with composition shingles and overhanging open eaves. The residence is clad with painted brick siding with vertical wood-board detailing in the gables on the side elevations, while the shed and garage are clad with horizontal wood-board siding.

The primary (west) elevation features a full-length, covered porch with wood post supports (Exhibit 7). A group of wood sash, multi-light windows and fixed windows, and a metal sash sliding window flank the paneled main entry door. Additional fenestration on the residence includes: wood sash double-hung windows, metal sash sliding windows, and partially glazed wood panel door. (Exhibit 8). Fenestration on the rear (east) elevation of the residence is an irregular pattern of wood sash, double-hung windows and metal sash windows (Exhibit 9). The north side elevation is obscured by wood frame screen cages and fencing as well as a small gambrel roof shed. A painted brick chimney is located on the north elevation (Exhibit 10).

A vertical wood-board fence separates the residence from the shed and garage on the south elevation. The shed is recessed and features a vertical wood-board double-shed door. A covered walkway separates the shed from the garage and leads to a single-panel door that provides access to the garage from its north elevation. The primary (west) elevation of the garage includes a painted wood garage door (Exhibit 11). The garage features of variety of fenestration.

Identified Alterations

The following exterior alterations were identified during the survey conducted on August 4, 2022:

- Garage constructed (between 1953 and 1964)
- Garage door replacement (date unknown)
- Reroofing with composition shingles (date unknown)
- Window replacement on west and south elevations (date unknown)
- Addition of a chicken coop on the north elevation (date unknown)

Character-Defining Features Reflecting Ranch Style

- Elongated plan with a horizontal emphasis
- One story in height
- Low-pitched gabled roof with overhanging, open eaves
- General asymmetry
- Cladding featuring a combination of materials
- Attached garage linked to residence by a breezeway

Exhibit 7. Primary (west) elevation and north elevation, view looking southwest (DSC02797).

Source: Dudek 2022.

Exhibit 8. South elevation, view looking north (DSC02855).

Source: Dudek 2022.

Exhibit 9. Rear (east) elevation, view looking southwest (DSC02853).

Source: Dudek 2022.

Exhibit 10. North elevation, view looking south (DSC02835).

Source: Dudek 2022.

Exhibit 11. The primary (west) elevation of the garage, view looking west (DSC02785).

Source: Dudek 2022.

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5 Significance Evaluation

For a property to be listed in or determined eligible for listing in the NRHP, it must be demonstrated to possess integrity and to meet at least one of four criteria. The CRHR was designed to reflect the same criteria and integrity as those identified for the NRHP. Therefore, the NRHP and CRHR significance evaluations are presented together.

5.1 Property 1: 560 South Melrose Drive

5.1.1 National Register of Historic Places/California Register of Historical Resources Statement of Significance

In consideration of Property 1, 560 South Melrose Drive's history and requisite integrity, Dudek finds the property not eligible for designation in the NRHP or CRHR based on the following significance evaluation and in consideration of national and state eligibility criteria:

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Property 1 is an altered religious building, initially constructed as the First Church of Religious Science in 1958. Archival research did not find any associations between the property and events that have made a significant contribution to the broad patterns of history. For a religious property to meet Criteria Consideration A and have historic significance under Criterion A/1, it must represent important historic or cultural forces. The property does not appear important to the Church of Religious Science's history within the United States and in California. Their beliefs included the power of the mind for healing and fulfillment of life based off Ernest Holmes's teachings from the Institute of Religious Science and Philosophy in Los Angeles, an organization founded in 1927. The First Church of Religious Science in Vista was completed in August 1958, 31 years after the founding of the Institute of Religious Science and Philosophy. The Church of Religious Science continued to expand throughout Southern California following the construction of Property 1, including the construction of an additional church in Chula Vista, located at 277 Church Street in 1961. There is no indication that the establishment of the First Church of Religious Science in Vista is an important location to religious history or represents an important historic or cultural force associated with the religious group that built the church.

There is no indication that the establishment of the First Church of Religious Science in Vista played an important role in the development of the community of Vista, which began its development in the early 1900s and expanded in 1923 after the formation of the Vista Irrigation District. The Church's establishment did not represent an important event in history, rather it followed a pattern of development that continued through the 1960s in Vista. Archival research failed to reveal that the establishment of the First Church of Religious Science in Vista contributed to the popularity of Vista as a City, rather its establishment came about as a result of residential expansion. The construction of institutions such as churches, schools, and community centers are typical in the early establishment of a community. Property 1, 560 South Melrose Drive merely followed the trend of Vista's development as a residential community in North County San Diego. Research found no association with more specific events or patterns of development that have historical significance at the local, state, or national level. For these reasons, the Property 1, 560 South Melrose Drive does not appear eligible under NRHP Criterion A or CRHR Criterion 1.

Criterion B/2: That are associated with the lives of persons significant in our past.

To be found eligible under Criterion B/2, the property has to be directly tied to an important person and the place where that individual conducted or produced the work for which he or she is known. Archival research failed to indicate any such direct association between individuals that are known to be historic figures at the national, state, or local level and Property 1. Property 1 was developed in 1958 as the First Church of Religious Science, Vista. Plans for the new church building in Vista were announced by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Rev. Dr. Featherstone spoke during the dedication ceremony of the church and continued to lead the First Church of Religious Science with the church hosting workshops, youth activities, sermons, support groups, and meditations. Despite Dr. J. Paul Featherstone being a productive member of Vista's community, there is no indication that his activities were important on the national, state, or local level. Archival research failed to reveal that Rev. Dr. J. Paul Featherstone gained importance within his profession as a pastor. A property is not eligible if its only justification for significance is that it was owned or used by a person who is a member of an identifiable profession, class, or social or ethnic group. Therefore, Property 1, 560 South Melrose Drive does not appear eligible under NRHP Criterion B or CRHR Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

A religious property may have historic significance for architectural or artistic values that the property represents. Property 1, 560 South Melrose Drive, which was developed in 1958 as the First Church of Religious Science, Vista does not embody distinctive characteristics of a type, period, or method of construction, or represent the work of a master, and it does not possess high artistic values.

The First Church of Religious Science, Vista was designed by Vista contractor J. Edward Esmay and built by Vista contractors Betraun & Betraun (also known as A.E. Betraun & Sons Construction Company). Archival research revealed little information on Esmay's career other than his 1970 design for a residence located at 520 Pointing Rock Drive, Borrego Springs. Betraun & Betraun constructed many community buildings in Vista, including the former Vista Irrigation District headquarters located at 202 West Connecticut Avenue. There is no indication that Esmay and Betraun & Betraun are considered masters within their fields. Rather, they were local contractors and builders who did not create distinctive or innovative designs for buildings.

The church displays several character-defining features reflecting the A-frame subtype of the Mid-Century Modern style including: One story in height; triangular shape; strong right angles and simple cubic forms; steeply sloping roof that extends all or partway to the ground on two sides; stucco siding; large windows or groups of windows on front or rear façades. The design on a major thoroughfare attracts attention to its form. However, alterations have detracted from the Mid-Century Modern style, notably from the A-frame shape, including the 1976 addition to the building's primary (west) elevation. This addition obstructed the view of the church's A-frame chapel, a key element of its style. Additionally, comparing the First Church of Religious Science, Vista to other notable examples of churches from the same time period, including Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955), Property 1 does not embody distinctive characteristics of a type, period, or method of construction within the context of 1950s and 1960s churches in Vista and San Diego County. The First Church of Religious Science, Vista merely reflected the simple ideas of the Mid-Century Modern architectural style

rather than fully embracing the modern forms and new materials as seen in the more fully expressed Mid-Century Modern designs of churches in the geographic area.

As such, Property 1, 560 South Melrose Drive, lacks sufficient distinctive characteristics of a type, period, or method of construction; does not represent the work of a master; does not possess high artistic values; and does not appear to be a potential contributor to a historic district. Therefore, Property 1, 560 South Melrose Drive, does not appear eligible under NRHP Criterion C or CRHR Criterion 3

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

Property 1, 560 South Melrose Drive is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

5.1.2 City of Vista Register of Designated Historic Resources Statement of Significance

Dudek finds Property 1, 550 South Melrose Drive not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the following significance evaluation and in consideration of local eligibility criteria:

City of Vista Criterion 1: Its association with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States

As discussed in NRHP/CRHR Criteria A/1, archival research failed to indicate that the establishment of First Church of Religious Science in Vista located on Property 1, 560 South Melrose Drive made a significant contribution to the broad patterns of local history. There is no indication that the establishment of the First Church of Religious Science in Vista served as the focus of the community, which began its development in the early 1900s and expanded in 1923 after the formation of the Vista Irrigation District. The Church's establishment did not represent an important event in history, rather it followed a pattern of development that continued through the 1960s in Vista. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 2: Its association with the lives of persons important to local California or national history

As discussed in NRHP/CRHR Criteria B/2, Property 1, 560 South Melrose Drive was developed in 1958 by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Archival research failed to reveal that Rev. Dr. J. Paul Featherstone gained importance within his profession as a pastor. Despite Dr. J. Paul Featherstone being a productive member of Vista's community there is no indication that his activities were important on the national, state, or local level. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 3: Its embodiment of the distinctive characteristics of a type, period, region or method of construction; its representation of the work of a master; or its signification of high artistic values

As discussed in NRHP/CRHR Criteria C/3, Property 1, 560 South Melrose Drive was constructed in 1958 as the First Church of Religious Science, Vista and does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, and it does not possess high artistic values. There is no indication that the church's designer, J. Edward Esmay, and builder, Betraun & Betraun, are recognized as masters within their fields. The church displays several character-defining features reflecting the A-frame subtype of the Mid-Century Modern style; however, alterations have detracted from the Mid-Century Modern style including the 1976 addition to the building's primary (west) elevation. Additionally, comparing the First Church of Religious Science, Vista to other notable examples of churches from the same time period including Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955), Property 1 does not embody distinctive characteristics of a type, period, or method of construction within the context of 1950s and 1960s churches in Vista and San Diego County. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 4: Its potential to yield information important to the prehistory or history of the local area, California or the nation.

As discussed in NRHP/CRHR Criteria D/4, Property 1, 560 South Melrose Drive has not yielded, nor is it likely to yield, information of scientific value. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

5.1.3 Integrity Discussion

Integrity Discussion

To be eligible for listing in the NRHP, properties must retain their physical integrity from the period in which they gained significance. In the case of architecturally significant properties, the period of significance is normally the date of construction. For historically significant properties, the length of the historic associations usually measures the period of significance.

Property 1, 560 South Melrose Drive contains one church building that has not been moved or relocated; therefore, the property retains integrity of location. Due to an addition made to the building's primary (west) elevation, Property 1 has diminished integrity of materials, workmanship, and design. With the construction of the North County Regional Center complex directly northwest of the property, large-scale residential development to the west, commercial and religious development to the north, west, and south, the surrounding neighborhood has changed so integrity of setting is diminished. The property retains integrity of feeling as a religious property constructed in the late 1950s. Finally, Property 1 does not have any historical associations with people or events and therefore it does not have integrity of association. In summary, Property 1 retains integrity of location and feeling but has diminished setting, design, materials, and workmanship due to alterations and changes to the surrounding area. It lacks integrity of association as it has no historical or architectural significance.

5.2 Property 2: 622 South Melrose Drive

5.2.1 National Register of Historic Places/California Register of Historical Resources Statement of Significance

Property 2, 622 South Melrose Drive does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, as demonstrated below.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Property 2, 622 South Melrose Drive includes one residence built in 1949. Archival research did not find any associations between the property and events that have made a significant contribution to the broad patterns of history. The property was completed in 1949, during a postwar population boom that affected not only Vista but much of greater Southern California. Despite the property reflecting the trend of Vista's residential growth during the late 1940s, there is no indication that the construction of this specific residence marked a pivotal point in the history of the neighborhood or city. It was neither the first nor the last of its type and was merely following a continuous pattern of residential development that continued through the postwar period. Property 2 is not known to be directly associated with events that have made a significant contribution to the history of Vista, therefore, it does not appear eligible under NRHP Criterion A or CRHR Criterion 1.

Criterion B/2: That are associated with the lives of persons significant in our past.

To be found eligible under Criterion B/2 the property has to be directly tied to an important person and the place where that individual conducted or produced the work for which he or she is known. Archival research failed to indicate any such direct association between individuals that are known to be historic figures at the national, state, or local level and Property 2, 622 South Melrose Drive. The property was constructed as a residence. The original owner is unknown. Historic newspaper research revealed Barbara Richtelman associated with the residence in 1965. However, research did not uncover any information about Richtelman. Richtelman does not appear to be a person significant in our past. Due to a lack of identified significant associations with important individuals, the Property 2 does not appear eligible under NRHP Criterion B or CRHR Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

Property 2, 622 South Melrose Drive minimally reflects the Ranch style of architecture. The property has few character-defining architectural features of Ranch style architecture. It possesses the style's characteristic asymmetry, one story height, and an elongated plan, but is an unremarkable example of the type. More distinguished forms of Ranch style residences can be found throughout San Diego County. A number of alterations have taken place including an addition of a garage, garage door replacement, reroofing, window replacement, and an addition of a chicken coop. No building permits were found for the property. Research yielded no information about the architect and the property is likely not the work of a master. As such, the property lacks sufficient distinctive characteristics of a type, period, or method of construction; does not represent the work of a master;

does not possess high artistic values; and does not appear to be a potential contributor to a historic district. Therefore, Property 2 does not appear eligible under NRHP Criterion C or CRHR Criterion 3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

Property 2, 622 South Melrose Drive is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

5.2.2 City of Vista Register of Designated Historic Resources Statement of Significance

Dudek finds Property 2, 622 South Melrose Drive not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the following significance evaluation and in consideration of local eligibility criteria:

City of Vista Criterion 1: Its association with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States.

As discussed in NRHP/CRHR Criteria A/1, extensive research indicates there is no association between Property 2, 622 South Melrose Drive and events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 2: Its association with the lives of persons important to local California or national history.

As discussed in NRHP/CRHR Criteria B/2, extensive archival research also indicates that Property 2, 622 South Melrose Drive is not identified with persons or events significant in local, state, or national history. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 3: Its embodiment of the distinctive characteristics of a type, period, region or method of construction; its representation of the work of a master; or its signification of high artistic values.

As discussed in NRHP/CRHR Criteria C/3, the Ranch style residence is a modest example of its type with few noteworthy architectural features. Ranch style buildings such as this are ubiquitous throughout Southern California. It is unknown who designed Property 2, 622 South Melrose Drive, and no building permits were found. The building lacks sufficient distinctive characteristics of a type, period, or method of construction; do not represent the work of a master; and do not possess high artistic values. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 4: Its potential to yield information important to the prehistory or history of the local area, California or the nation.

As discussed in NRHP/CRHR Criteria D/4, Property 2, 622 South Melrose Drive has not yielded, nor is it likely to yield, information of scientific value. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

5.2.3 Integrity Discussion

Integrity Discussion

To be eligible for listing in the NRHP, properties must retain their physical integrity from the period in which they gained significance. In the case of architecturally significant properties, the period of significance is normally the date of construction. For historically significant properties, the length of the historic associations usually measures the period of significance. The property has neither historical nor architectural significance.

Property 2, 622 South Melrose Drive contains one residence that has not been moved or relocated; therefore, the property retains integrity of location. Due to various alterations to the residence including window replacement, addition of a garage, addition of a chicken coop, reroofing, and garage door replacement, Property 2 has diminished integrity of materials, workmanship, and design. With the construction of the North County Regional Center complex directly northwest of the property, large-scale residential development to the west, commercial and religious development to the north, west, and south, the surrounding neighborhood has changed so integrity of setting is diminished. The property retains integrity of feeling as a single-family residence. Finally, Property 2 does not have any historical associations with people or events and therefore it does not have integrity of association. In summary, Property 2, 622 South Melrose Drive retains integrity of location and feeling but has diminished setting, design, materials, and workmanship due to alterations. It lacks integrity of association as it has no historical or architectural significance.

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6 Findings and Conclusions

6.1 Summary of Findings

No historic built environment resources were identified within the Project site as a result of extensive archival research, a field survey, and property significance evaluations. Findings are summarized below in Table 2. Therefore, the properties that comprise the proposed Project site are not considered historical resources for the purposes of CEQA. Further, no potential indirect impacts to historical resources were identified.

Table 2. Historic Built Environment Findings

Property	Address and APN	Date Constructed	NRHP/ CRHR/ City of Carlsbad Significance Criteria	Previous CHRS code (if applicable)	Assigned California Historical Resource Status code	CEQA Finding
Property 1	560 South Melrose Drive (APN 166-280-60-00)	1958	Not eligible	Not applicable	6Z: Found ineligible for NR, CR or local designation through survey evaluation	Not considered a historical resource for the purposes of CEQA
Property 2	622 South Melrose Drive (APN 166-280-18-00)	1949	Not eligible	Not applicable	6Z: Found ineligible for NR, CR or local designation through survey evaluation	Not considered a historical resource for the purposes of CEQA

6.2 Recommendations

No historical resources were identified within or adjacent to the Project site as a result of extensive archival research, a South Coastal Information Center records search, field survey, and property significance evaluations. The Project site is not currently designated or listed under any national, state, or local cultural resources programs. The Project site has not been identified as eligible for local designation by a recent historic resources survey.

Dudek evaluated the Project site in accordance with Section 15064.5 (a)(2)-(3) of the CEQA Guidelines and using the criteria outlined in Section 5024.1 of the California Public Resources Code. Dudek concludes that the buildings on the Project site do not appear to be eligible for listing in the NRHP, CRHR, or City of Vista Register of Designated Historic Resources due to a lack of significance. As such, no buildings on the Project site appear to be historical resources under CEQA. The recommended Status Code for Property 1 and Property 2 is 6Z. Further, no potential

indirect impacts to historical resources were identified as the proposed Project has no potential to impact the built environment beyond the Project site.

The finding for built environment cultural resources for the proposed Project under CEQA is No Impact. As the proposed Project would have no impact on historical resources, no further study is required

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Appendix A
Preparer's Qualifications

Nicole Frank, MSHP

ARCHITECTURAL HISTORIAN

Education

The School of the Art Institute of Chicago
MS, Historic Preservation, 2018

The College of Charleston
BA, Historic Preservation and Art History, 2016

Professional Affiliations

California Preservation Foundation

Association for Preservation Technology (APT)

Encinitas Preservation Association

Nicole Frank (*nih-COHL FRAYNK; she/her*) is an architectural historian with 4 years' experience in the historic preservation field. Ms. Frank's professional experience encompasses a variety of projects for local agencies, private developers, and homeowners in both highly urbanized and rural areas. Projects have included reconnaissance-level surveys, preparation of resource-appropriate and citywide historic contexts, and historical significance evaluations in consideration of the National Register of Historic Places (NRHP), California Register of Historic Resources (CRHR), and local designation criteria. Ms. Frank has experience conducting historic research, writing landmark designations, performing conditions assessments, and working hands-on in building restoration projects throughout the United States. Ms. Frank also has governmental experience with the City of San Francisco's Planning Department and the City of Chicago's Landmark Designations Department.

Ms. Frank meets the Secretary of the Interior's Professional Qualifications Standards for history and architectural history pursuant to Title 36, Part 61, of the Code of Federal Regulations, Appendix A.

Selected Experience

Coronado Citywide Historic Resources Inventory and Historic Context Statement, City of Coronado, California. Dudek is currently in the process of preparing a historic context statement and historic resources inventory survey for all properties at least 50 years old within City of Coronado limits. Following current professional methodology standards and procedures developed by the California Office of Historic Preservation and the National Park Service, Dudek will develop a detailed historic context statement for the City that identifies and discusses the important themes, patterns of development, property types, and architectural styles prevalent throughout the City. Dudek will also conduct a reconnaissance-level survey of all properties within City limits that are at least 50 years old to identify individual properties and groupings of properties (i.e., historic districts) with potential for historical significance under City Criterion C (properties that possess distinctive characteristics of an architectural style; are valuable for the study of a type, period, or method of construction; and have not been substantially altered) Acting as architectural historian, authored the historic context statement and conducted reconnaissance-level surveys of properties within City limits. (2019–Present)

As-Needed Historic Research Consulting Services, City of Coronado, California. Dudek was retained by the City of Coronado to provide as-needed historic consulting services for various projects. Each evaluation involved the creation of an occupancy timeline, supplemental research on occupants, building development research (including architects, builders, and property), a pedestrian survey of the project area, creation of a description of the surveyed resource, and completion of a historical significance evaluation report in consideration of designation criteria and integrity requirements. Acting as project manager and architectural historian, authored

historical resource evaluation reports for the following properties: 936 J Avenue, 310 2nd Street, 718 B Avenue, 1027-1029 Orange Avenue, 735 Margarita Avenue, 519 Ocean Boulevard, 1901 Monterey Avenue, 269 Palm Avenue, 1113 Adella Avenue, 1519 4th Street, 745 A Avenue, 451–55 Alameda Boulevard, 503 10th Street, 121 G Avenue, 1152 Glorietta Boulevard, 711 Tolita Avenue, 951 G Avenue, 817 A Avenue, 625 B Avenue, 260 D Avenue, 761 I Avenue, and 816 1st Street. (2019–Present)

Senior Residences at Hillcrest Project, DFA Development, San Diego, California. Dudek was retained by DFA Development to prepare a Historic Properties Inventory Report for the project, which proposes to develop a 68-unit, affordable senior housing community located in the Hillcrest neighborhood of San Diego. The project site is partially developed with existing buildings for preschool services associated with the adjacent University Christian Church and a parking lot. The project is proposing to receive U.S. Department of Housing and Urban Development project vouchers issued to the San Diego Housing Commission and is therefore required to undergo a National Environmental Policy Act (NEPA) analysis for receiving federal funding. Acting as architectural historian, co-authored the technical report and conducted a pedestrian survey of the site. (2020–2021)

Sycuan Fee to Trust Project, Sycuan Band of the Kumeyaay Nation Reservation, Unincorporated San Diego County, California. The Sycuan Band of the Kumeyaay Nation Reservation retained Dudek to complete a Historic Properties Inventory and Evaluation Report for the proposed project, located within the vicinity of El Cajon, California, in unincorporated San Diego County. The project proposes a fee-to-trust transfer of five parcels that cumulatively total approximately 40 acres. The transfer of land from the Sycuan Band to the Bureau of Indian Affairs (the federal lead agency) would include several parcels. Dudek's report included development of a project APE map; the relevant results of a California Historical Resources Information Systems records search and background research; a pedestrian survey of the APE for built environment resources; and a historical significance evaluation of all properties more than 50 years of age within the APE, in consideration of potential adverse effects to historic properties under Section 106 of the National Historic Preservation Act. The evaluation found that Properties 1, 2, 4, and 5 were not eligible for the NRHP at the individual level or as part of a larger historic district. As a result, no historic properties were identified within the APE, and Dudek recommends a finding of No Historic Properties Affected. As architectural historian, conducted background research and a pedestrian survey. (2021)

Southern First Aqueduct Structures Rehabilitation Project, San Diego County Water Authority, California. Dudek was retained by the San Diego County Water Authority to conduct a Phase I Cultural Resources (including both archaeological and built environment) Inventory for the Southern First Aqueduct Rehabilitation Project, located along a 21-mile stretch of the First San Diego Aqueduct, east of Interstate 15 from the City of Escondido in the north to the Goodan Ranch/Sycamore Canyon County Preserve west of San Vicente Reservoir. As part of this effort, the San Diego Water Authority will be applying for a Letter of Permission under its Programmatic Master Plan Permit with the United States Army Corps of Engineers, pursuant to Section 404 of the Clean Water Act. The United States Army Corps of Engineers is the federal lead agency responsible for overseeing compliance with Section 106 of the National Historic Preservation Act, as this project is exempt from review under CEQA. Acting as architectural historian, co-authored the Phase I Cultural Resources Inventory Report and authored the analysis of potential adverse effects. (2021)

Enclave at Ivanhoe Ranch Project, Vance & Associates, Rancho San Diego, California. Dudek was retained by Vance & Associates to complete a Historical Resources Technical Report in support of the proposed project, a residential development project. The project site totals approximately 121.9 acres in Rancho San Diego. Included in the project site is a historic-era complex of horse ranch buildings and accompanying residences, located at 3256, 3261, 3263, 3267, and 3269 Ivanhoe Ranch Road (APNs 518-030-41, 518-030-43, 518-030-44, and 518-030-45), which were evaluated for historical significance. This study was conducted in accordance with Section 15064.5(a)(2)-(3) of CEQA guidelines, and the project site was evaluated in consideration of NRHP, CRHR,

and County of San Diego Historic Preservation Ordinance and resource protection ordinance requirements. Acting as architectural historian, co-authored the technical report and conducted a pedestrian survey of the site. (2020)

Shawnee/CG7600 Master Plan Redevelopment Project, Palmer Mission Gorge Properties, LP, San Diego, California. Dudek was retained by Palmer Mission Gorge Properties, LP, to conduct a Potential Historical Resource Review (in accordance with Information Bulletin 580) for four properties more than 45 years old within the City of San Diego. Acting as architectural historian, conducted a photographic survey of the four properties within the project site. Updated three 2011 DPR Series 523 Forms and created a new DPR form for a previously unrecorded property within the project site. (2020)

University of California (UC) San Diego, Future College Living and Learning Neighborhood, UC San Diego Campus Planning Office, California. Dudek was retained by UC San Diego Campus Planning Office to conduct a visual analysis for the proposed project, which would consist of five housing buildings providing an additional 2,000 beds to serve the student population of the UC San Diego campus. As architectural historian, conducted a field visit to gain a better understanding of the visual environment of the project site and surrounding area. (2020)

Historic Context Statement for Reservoirs, City of San Diego Public Utilities Department, California. Dudek was retained by the City of San Diego Public Utilities Department to complete a survey and historic context statement for the City's surface water storage system, including 10 dam complexes and the Dulzura Conduit. Dudek also prepared detailed impacts assessments for proposed modification to dams, as required by the Department of Safety of Dams. The project involves evaluation of 10 dam complexes and conduit for historical significance in consideration of NRHP, CRHR, and City designation criteria and integrity requirements. The evaluation required extensive archival research and a pedestrian survey. Acting as architectural historian, evaluated five resources, including the Dulzura Conduit, Upper Otay Dam, Murray Dam, Sutherland Dam, and Miramar Dam. (2020)

Mira Mesa Community Plan Area Historic Context Statement and Focused Reconnaissance Survey, City of San Diego, California. Dudek was retained by the City of San Diego to prepare a historic context statement identifying the historical themes and associated property types important to the development of Mira Mesa, accompanied by a reconnaissance-level survey report focused on the master-planned residential communities within the Mira Mesa Community Plan Area (CPA). This study was completed as part of the comprehensive update to the Mira Mesa CPA and Programmatic Environmental Impact Report. While the historic context statement addressed all development themes and property types within the community, the scope of the survey was limited to residential housing within the CPA constructed between 1969 and 1990. Acting as architectural historian, co-authored and completed the historic context statement, the survey document, and all associated archival research efforts. (2020–Present)

University CPA Historic Context Statement and Focused Reconnaissance Survey, City of San Diego, California. Dudek was retained by the City of San Diego to prepare a historic context statement identifying the historical themes and associated property types important to the development of the University CPA, accompanied by a reconnaissance-level survey report focused on the master-planned residential communities within the University CPA. This study was completed as part of the comprehensive update to the University CPA and Programmatic Environmental Impact Report. While the historic context statement addressed all development themes and property types within the community, the scope of the survey was limited to residential housing within the CPA constructed between the 1960s and 1990s. Acting as architectural historian, co-authored and completed the historic context statement, the survey document, and all associated archival research efforts. (2020–Present)

Caitlin Greeley, MA

ARCHITECTURAL HISTORIAN

Caitlin Greeley (*she/her*) is an architectural historian with 2 years' professional experience. As part of her cultural resources management work, Ms. Greeley has conducted archival research, performed fieldwork, and authored multiple historic context statements. She also has experience preparing and contributing to California Department of Parks and Recreation (DPR) 523 forms. She has experience with consultation for Section 106 of the National Historic Preservation Act, Area of Potential Effect maps, Historic Resource Evaluation Reports, Historical Resource Inventories, Historic American Building Survey photography, reconnaissance and intensive-level surveys, and archival research.

Ms. Greeley meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and History. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) and Sections 106 and 110 of the National Historic Preservation Act.

Prior to joining Dudek, Ms. Greeley gained extensive experience working in multicultural and multilingual environments. She has experience photographing historic buildings and writing conservation management statements for preservation and proposals for adaptive reuse of historic buildings.

Education

New York University (London)
MA, Historical and Sustainable Architecture, 2017

The College of Saint Scholastica,
BA, Humanities, 2014

Specialized Training

Historic American Building Survey/Historic American Engineering Record/Historic American Landscapes Survey Photography Training

Dudek Project Experience

Cultural Resources Inventory and Evaluation Report for the Elephant Hill Project, City of Pomona, Los Angeles County, California. Dudek was retained by City of Pomona to prepare an inventory and evaluation report for the Elephant Hill Project, which proposes to develop a 228-unit single and multi-family housing development on the western face of Elephant Hill. The proposed project activities intersected or were immediately adjacent to one previously listed City of Pomona Designated Historical Landmark: Spadra Cemetery; and one previously unidentified property over 50 years in age: a segment of Brea Canyon Road. Preparation of the report involved intensive level survey of both properties including documentation of the cemetery according to National Register Bulletin 41 guidelines, archival research, historic context development, developing a significance evaluation for resources under NRHP, CRHR, and local criteria. Dudek recommended that Brea Canyon Road was ineligible; however, Spadra Cemetery was already considered a historical resource under CEQA and an impacts analysis and mitigation measures were prepared. (2022 - ongoing)

As-Needed Historic Research Consultant, City of Coronado, California. Dudek is currently working with the City of Coronado Community Development Department to provide historic preservation services on an as-needed basis. Services scoped under the current contract include historic resources surveys; archival research; preparation of evaluation reports in consideration of the National Register of Historic Places (NRHP), the California Register of

Historical Resources, and City of Coronado designation criteria; attendance at Historic Resource Commission and City Council hearings; and review of projects for conformance with the Secretary of the Interior's Standards for Rehabilitation. Ms. Greeley serves as an architectural historian for the task orders and is responsible for archival research and reporting. (2022 - ongoing)

SB2 Planning Grant Project, San Bernardino County, California. Dudek was retained to prepare a Cultural Resources Technical Report in support of the SB2 Planning Grant Project in San Bernardino County. Preparation of the report involved extensive archival research and historic context statement development. Ms. Greeley serves as an architectural historian for the project and is responsible for archival research and coauthoring the historic context statement. (2022)

Willow Tree Inn, City of Compton, California. Dudek was retained to prepare a historic resources evaluation, a Built Environment Inventory, and an evaluation report for the Willow Tree Inn located within the city limits of Compton. Preparation of the report involved extensive archival research, in-field research, historic context statement development, building development descriptions, historical significance evaluations, and DPR forms for the property. Ms. Greeley serves as an architectural historian for the project and is responsible for fieldwork, archival research, and writing building descriptions. (2022)

Select Recent Experience

California Housing and Community Investment Department of Los Angeles, City of Los Angeles, California. Ms. Greeley performed intake of incoming work orders of affordable housing projects and conducted historic research on each project site and neighboring properties. She evaluated properties throughout Los Angeles in compliance with Section 106 to determine potential eligibility of historic resources for designation on the NRHP. She also created the preliminary Area of Potential Effects boundary maps for the proposed project using Photoshop for visual presentation. She aided in making preliminary determinations to see if the proposed affordable housing project had an effect on surrounding properties eligible for the NRHP in accordance with Section 106. She coordinated with and provided training to coworkers on the intake process for the project. She conducted site survey of individual resources in the City of Los Angeles through photographic documentation and contributed to DPR forms. (2020–2021)

Cultural Assessment for Weatherization Projects for Homes, California Department of General Services, California. Ms. Greeley helped with the intake of reviews, assigned reviews to staff, and coordinated with agencies. She also conducted research on historic-age properties throughout California using assessor records, building permits, historic aerials, local ordinances, or surveys regarding local historic preservation to determine if the proposed project had an effect on properties eligible for the NRHP in accordance with Section 106. (2020–2022)

XpressWest Passenger Train Project, California and Nevada. Ms. Greeley performed administrative tasks and organized Section 106 consultation party documents. She also contributed to DPR forms and NRHP eligibility evaluations of individual resources. She conducted research on unknown parcels using historic photographs and spatial analysis programs such as Google Earth imaging. She edited survey photos through post-production software, such as Photoshop, for visual presentation. (2020)

Interstate 10/Mt. Vernon Avenue Improvement Project, City of Colton and Caltrans District 8, San Bernardino County, California. Ms. Greeley conducted a field survey to identify built environment resources requiring formal evaluation and participated in the identification of built resources subject to exemption per Attachment 4 of the Caltrans Section 106 Programmatic Agreement. She also researched and contributed to the City of Colton historic

context statement in the draft Historical Resources Evaluation Report. Additionally, she prepared DPR forms for individual resources in the project Area of Potential Effect. (2020)

Fenix Marine Intermodal Railyard Expansion and Modernization Project, The Port of Los Angeles and Maritime Administration, California. Ms. Greeley researched consulting parties for the project and drafted consultation letters and tribal letters as part of the Section 106 process. She also contributed to the draft technical report and conducted a field survey of historic built environment resources. (2020)

Allison Lyons, MSHP

SENIOR ARCHITECTURAL HISTORIAN

Education

Columbia University, M.S., Historic Preservation, 2010

Scripps College, B.A., European Studies, 2006

Allison Lyons (*AL-ih-suhn LYE-ons; she/her*) is an architectural historian with 12 years' experience throughout the western United States in all elements of cultural resources management. Her expertise includes the preparation of environmental compliance documents in accordance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act, focusing on the evaluation of historical resources and analysis of project impacts. As a historic preservation consultant, she has been involved in the preparation of numerous large-scale historic resources surveys, Historic American Buildings Survey/Historic American Engineering Record recordation, Federal Rehabilitation Tax Credit and Mills Act Historic Property Contract applications, local landmark nominations, and evaluations of eligibility for a wide variety of projects and property types throughout California. She is highly experienced in writing National Register of Historic Places (NRHP) nominations and historic context statements for local governments. Ms. Lyons meets the Secretary of the Interior's Professional Qualifications Standards for history and architectural history pursuant to Title 36, Part 61, of the Code of Federal Regulations, Appendix A.

Dudek Project Experience

Los Angeles County Metro Area Plan Project, Los Angeles County, California. Dudek was retained by the County of Los Angeles Department of Regional Planning to prepare a Historic Context Statement in support of the Metro Area Plan (MAP) project. The goal of the Historic Context Statement component of the project is to inform, enhance, and streamline the larger MAP project as it pertains to historical resources. The communities included within the MAP Historic Context Statement include the following: East Los Angeles, East Rancho Dominguez, Florence-Firestone, Walnut Park, West Athens-Westmont, West Rancho Dominguez-Victoria, and Willowbrook. The HCS documents the development history of the communities from the rancho period to the present, identifies important themes, events, and patterns of development, and describes the different property types, styles, builders, and architects associated with these important periods and themes. The document also provides registration requirements and recommendations for future study/action by the County of Los Angeles to facilitate and streamline the historic preservation program. Responsibilities include archival research, co-authoring the Historic Context Statement, stakeholder engagement, collaboration with the GIS team to create an online mapping tool, field survey, and attendance at public meetings. (2021-Present)

Los Angeles County East Los Angeles Historic Resources Survey of Historic Age Commercial Signage, Los Angeles County, California. Dudek was retained by the County of Los Angeles Department of Regional Planning to perform a Historic Resources Survey and focused Historic Context Statement for historic age commercial signage located in the Community Plan Area of East Los Angeles. The goal of the project is to document the history of commercial signage, record and evaluate significant historic signs, and designate all applicable signs as County Landmarks. Ms. Lyons led the fieldwork and identification component of the project, focusing on major commercial corridors along Whittier Blvd, Atlantic Blvd, E. 3rd Street, and Olympic Blvd (2021-Present)

Los Angeles Department of Water and Power Century Trunk Line, Los Angeles Department of Water and Power, City of Los Angeles, California. Dudek was retained by Los Angeles Department of Water and Power to prepare an Avoidance and Protection Plan for Air Raid Siren No. 150. The resource is eligible for the NRHP and California Register of Historical Resources and as a City of Los Angeles Historic-Cultural Monument under Criteria A/1/1 and C/3/3 for its association with World War II and Cold War military infrastructure, and is a historical resource under CEQA. Ms. Lyons is serving as a senior architectural historian, providing quality assurance/quality control for the Post-Construction Monitoring Report. (2021–Present)

City of Coronado Historic Context Statement and Historic Resources Inventory, City of Coronado, California. Dudek is currently in the process of preparing a historic context statement and historic resources inventory survey for all properties at least 50 years old within City of Coronado limits. Following current professional methodology standards and procedures developed by the California Office of Historic Preservation and the National Park Service, Dudek developed a detailed historic context statement for the City that identifies and discusses the important themes, patterns of development, property types, and architectural styles prevalent throughout the City. Dudek also conducted a reconnaissance-level survey of all properties within City limits that are at least 50 years old to identify individual properties and groupings of properties (i.e., historic districts) with potential for historical significance under City Criterion C (properties that possess distinctive characteristics of an architectural style; are valuable for the study of a type, period, or method of construction; and have not been substantially altered). This document also developed registration requirements for resource evaluation that are specific to Coronado, in consideration of both historical significance and integrity requirements. Acting as senior architectural historian, reviewed and wrote sections of the historic context statement. (2019–Present)

Downtown Buena Park Project, Historical Resources Technical Report and Impacts Analysis (for CEQA), Buena Park, Orange County, California. Merlone Geier is proposing to redevelop a vacant Stiles & Robert Clements-designed Sears building at the Buena Park Downtown Mall in the City of Buena Park. The redevelopment plans include residential units, amenity and lobby space, and parking. The Sears building, auto center, and surrounding parking lots that were historically connected to the Downtown Buena Park Mall. Following the initial construction of the Sears building in 1959, the Buena Park Downtown Mall was expanded in multiple stages throughout a 50-year development period. To determine if the project would have a significant impact on historical resources, Dudek evaluated the entire Buena Park Downtown Mall for historical significance and integrity in consideration of National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) designation criteria. Dudek determined that the Buena Park Downtown Mall, including the Sears building, did not appear eligible under any NRHP or CRHR designation criteria due to a lack of significant historical associations, architectural merit, and compromised integrity and the Project would result in a less than significant impact to historical resources under CEQA. Ms. Lyons served as a senior architectural historian, providing quality assurance/quality control for the Historical Resources Technical Report. (2021)

8730 Sunset Boulevard Billboard Project Historical Resource Assessment Report, City of West Hollywood, California. The 8730 Sunset Boulevard Billboard Project consists of installation and operation of a new billboard and associated façade improvements at the existing “Sunset Towers” building. The Sunset Towers building at 8730 Sunset Boulevard was constructed in the 1950s and 1960s over the course of two phases. A smaller building was constructed on the northern portion of the parcel between 1957 and 1959. Dudek was retained by the City of West Hollywood to complete this Historic Resource Assessment, an intensive-level evaluation, as part of the environmental review of the proposed project in compliance with CEQA. This study included an intensive survey of the exterior of the Sunset Towers building by a qualified architectural historian; building development and archival research; development of an appropriate historic context; and evaluation of the Sunset Towers building for historical significance and integrity in consideration of NRHP, CRHR, and City of West Hollywood

Cultural Heritage Preservation Ordinance designation criteria. Ms. Lyons served as a senior architectural historian and main author of the Historic Resource Assessment of the Sunset Towers building. (2021)

Select Recent Experience

Athens Park Aquatics Facility Renovation Project Historical Resource Treatment Plan and Impacts Analysis (Secretary of the Interior's Standards Compliance Review), Los Angeles, California. The County of Los Angeles proposed a rehabilitation project at the Aquatics Facility at Athens Park, a park determined eligible for listing in the National Register of Historic Places. Ms. Lyons worked with the architect for the project on two phases of work. In advance of the development of project plans, Ms. Lyons prepared a Preservation Plan for the Aquatics Facility to establish the opportunities and constraints for the rehabilitation. After project plans were prepared, Ms. Lyons reviewed the project plans for compliance with the Secretary of the Interior's Standards for Rehabilitation and made recommendations for modifications to ensure the project plans complied with the Standards. (2020–2021)

676 Moss Street Redevelopment Site Historical Resource Evaluation and Impacts Analysis (for CEQA), Chula Vista, California. Ms. Lyons completed a historical resource evaluation and impacts analysis for a redevelopment site of industrial buildings in Chula Vista. She also identified the potential for the project to cause indirect and/or cumulative impacts to adjacent historical resources. (2020)

North Beach Historic District National Register of Historic Places Nomination and Plaque Program, San Clemente, California. Founded in 1925, San Clemente was one of the first new master-planned towns in California. The North Beach Historic District occupies a prominent location as the historic northern tip of the City of San Clemente along North El Camino Real. The North Beach Historic District was listed on the National Register of Historic Places at the local level of significance under Criterion A in the areas of Community Planning and Development and Entertainment/Recreation. The district features five historic contributing resources designed in the Spanish Colonial Revival style with a period of significance between 1927-1946. Ms. Lyons served as project manager for the National Register of Historic Places nomination of the district and a concurrent, Certified Local Government (CLG) grant-funded project with the City of San Clemente to create content and designs for signage across the district and informational postcards featuring historic images. (2020)

City of West Covina Historic Resources Survey and Context Statement Update, West Covina, California. The City of West Covina was primarily developed during Southern California's post-World War II housing construction boom. The City of West Covina Historic Context Statement, 1945-1978, and Historic Resource Inventory Update report presented the results of a project that updated the City's existing historic context statement (HCS); reviewed properties previously identified for historical significance; and identified, citywide, properties from 1945 to 1978 that have historical significance. The City of West Covina commissioned this project to inform and implement their General Plan Policy updates. The information generated from the Historic Resources Inventory (HRI) Update was intended to assist in the identification of potential historical resources dating from 1945 to 1978. Ms. Lyons served as the project manager. She co-conducted the fieldwork, co-authored the historic context statement, documented potential historic resources on inventory forms using a Microsoft Access database, prepared the final survey report, performed project management duties, and presented findings at public hearings. (2018–2019)

Angel's Landing Redevelopment Site Historical Resource Evaluation and Impacts Analysis (for CEQA), Los Angeles, California. Ms. Lyons worked with attorneys for the development team behind Angel's Landing, a proposed 64-story skyscraper and a 42-story high-rise located between Bunker Hill and the Historic Core of downtown Los Angeles. Ms. Lyons prepared a historic resource evaluation and impacts analysis for the vacant project site. The evaluation involved the identification of historical resources in the vicinity and assessment of impacts on numerous adjacent historical resources and historic districts listed on the NRHP, including Angel's Flight funicular railway and the Broadway Theater and Commercial District. (2018–2020)

Artisan, 1520 Ivar Avenue Redevelopment Site Historical Resource Evaluation and Impacts Analysis (for CEQA), Los Angeles, California. The Artisan project involved the construction of a 25-story residential and commercial tower in the center of Hollywood. The project site was mostly a vacant surface parking lot. Ms. Lyons verified that the project site did not contain historic resources and would not have a significant impact on adjacent properties identified as historic resources. Ms. Lyons prepared a Historic Resource Evaluation Report and analysis of project impacts using the Secretary of the Interior's Standards. She also participated in public outreach with Hollywood Heritage. (2018–2021)

Sixth Street Park, Arts, River, and Connectivity (PARC) Improvements Project Historical Resource Technical Report, Los Angeles, California. The Sixth Street Viaduct Division of the City of Los Angeles Department of Public Works, Bureau of Engineering, in coordination with the California Department of Transportation, proposed to create a public space in areas beneath and around the new Sixth Street Viaduct between Mateo Street to the west and US-101 to the east in the City of Los Angeles. Ms. Lyons worked with the GPA's team of environmental consultants to prepare Section 106 and CEQA technical reports and Cultural Resources Chapter for the project Environmental Impact Report. (2017)

SurveyLA, Los Angeles Citywide Historic Context Statement and Field Surveys, Los Angeles, California. Los Angeles's citywide historic context statement provides the framework for identifying and evaluating the City's historic resources. The document, created as part of SurveyLA, identifies important themes in the City's history and development. Ms. Lyons conducted research and authored several themes within the context. She was the lead author for two themes addressing architectural styles and all sub-themes. She also contributed to themes developed for two ethnic and cultural communities in Los Angeles: "African-Americans in Los Angeles" and "Jews in Los Angeles." Ms. Lyons also led fieldwork surveys for multiple phases of the SurveyLA project. (2015–2019)

City of West Hollywood Commercial Properties Historic Context Statement and Historic Resources Survey (Intensive), West Hollywood, California. The City of West Hollywood completed the Commercial Survey as an update to the initial citywide survey conducted in 1986. The Commercial Survey focused on commercial, institutional, and industrial structures built before 1975. The project was completed in the fall of 2016. Ms. Lyons conducted research, co-conducted fieldwork, co-authored the historic context statement, documented potential historic resources on inventory forms using the RuskinARC database, and prepared the final survey report. She presented multiple times at public meetings for the project. In conjunction with the project, a new website was developed. The project was awarded the California Governor's Historic Preservation Award and the California Preservation Foundation Preservation Design Award. (2015–2017)

National Chicano Moratorium National Register of Historic Places Nomination, Los Angeles, California. The Chicano Moratorium was a movement of Chicano anti-Vietnam war activists that built a coalition of Mexican-American groups to organize opposition to the Vietnam War, primarily marches. The legacy of the movement, which highlighted the unequal treatment of Mexican-Americans in multiple facets of American society, was the creation of community organizations that advocated for health and educational services. Ms. Lyons prepared a Multiple Property Documentation form and individual National Register of Historic Places nominations for five buildings and sites associated with the National Chicano Moratorium anti-Vietnam War protests. Sites included routes for marches held in 1969 and 1970, the Silver Dollar Café (site of Ruben Salazar's death), Brown Beret headquarters, and East Los Angeles Free Clinic. (2015–2018)

Appendix B

Department of Parks and Recreation Form Set

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #_____
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings_____
Review Code Reviewer Date

Page 1 **of** 16 ***Resource Name or #:** (Assigned by recorder) 560 S Melrose Drive
P1. Other Identifier: subject property/Property 1

*P2. **Location:** ☐ **Not for Publication** ☒ **Unrestricted**

***a. County** San Diego **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** San Bernardino **Date** 2022 **T** 11S; **R** 4W; **of Sec** 25; San Bernardino **B.M.**

c. Address 560 S. Melrose Drive City Vista Zip 92081

d. UTM: (Give more than one for large and/or linear resources) **Zone** 11S, 476408.00 mE/ 3672081.00 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 166-280-60-00

***P3a. Description**: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
560 South Melrose Drive (subject property)is located within a commercial corridor of a residential neighborhood on the eastern side of Melrose Drive (APN 166-280-60-00). The parcel is rectangular in shape and features a single-story Mid-Century Modern style church with an L-shape plan on the south end of the property. An asphalt parking lot that surrounds the church. The building is comprised of four distinct masses separated by the shapes of their roofs. *See Continuation Sheet

***P3b. Resource Attributes:** (List attributes and codes) HP16. Religious building

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)

P5b. Description of Photo: (view, date, accession #): View
Primary (west) elevation, view looking southwest Photo # DSC02636

***P6. Date Constructed/Age and Source:** ☒ Historic ☐Prehistoric ☐ Both
1958/SD County Assessor

***P7. Owner and Address:**
ACME Investment Services LLC
3753 Howard Hughes Parkway #200
Las Vegas, Nevada 89169

***P8. Recorded by**: (Name, affiliation, and address) [name, last name],
Nicole Frank, Dudek
603 3rd Street
Encinitas, CA 92024

***P9. Date Recorded:**
08/05/2022

***P10. Survey Type:** (Describe)
Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")
Dudek. 2022. *Historical Resources Technical Report, Vista Melrose Residential Project*, City of Vista, San Diego County, California.

*Attachments: ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary # _____
HRI# _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 560 S. Melrose Drive ***NRHP Status Code** 6Z

Page 2 **of** 16

B1. Historic Name: 560 S. Melrose Drive

B2. Common Name: 560 S. Melrose Drive

B3. Original Use: Church B4. Present Use: Church

***B5. Architectural Style:** Mid-Century Modern

***B6. Construction History:** (Construction date, alterations, and date of alterations)

Built 1958, see continuation sheet

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____

***B8. Related Features:**

None

B9a. Architect: unknown b. Builder: J. Edward Esmay, Betraun & Betraun

***B10. Significance: Theme** N/A **Area** Vista

Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The subject property at 560 S Melrose Drive does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, due to a lack of significance. Dudek finds the subject property not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the significance evaluation and in consideration of local eligibility criteria.

See continuation sheet.

B11. Additional Resource Attributes: (List attributes and codes) None.

***B12. References:**

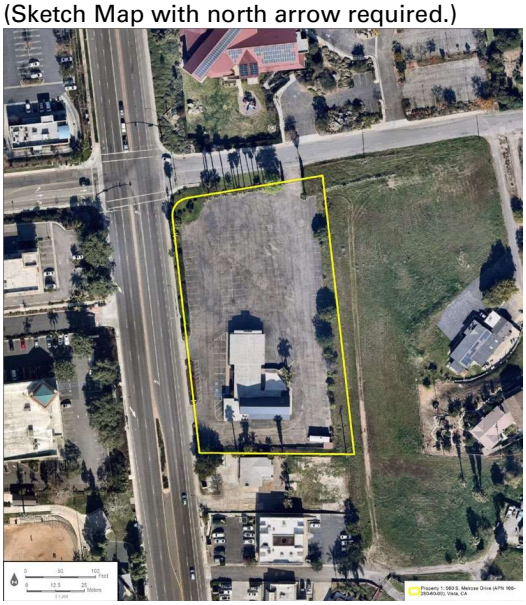
See Continuation sheet.

B13. Remarks:

***B14. Evaluator:** Nicole Frank, MSHP, Dudek

***Date of Evaluation:** 9/7/22

(Sketch Map with north arrow required.)



(This space reserved for official comments.)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

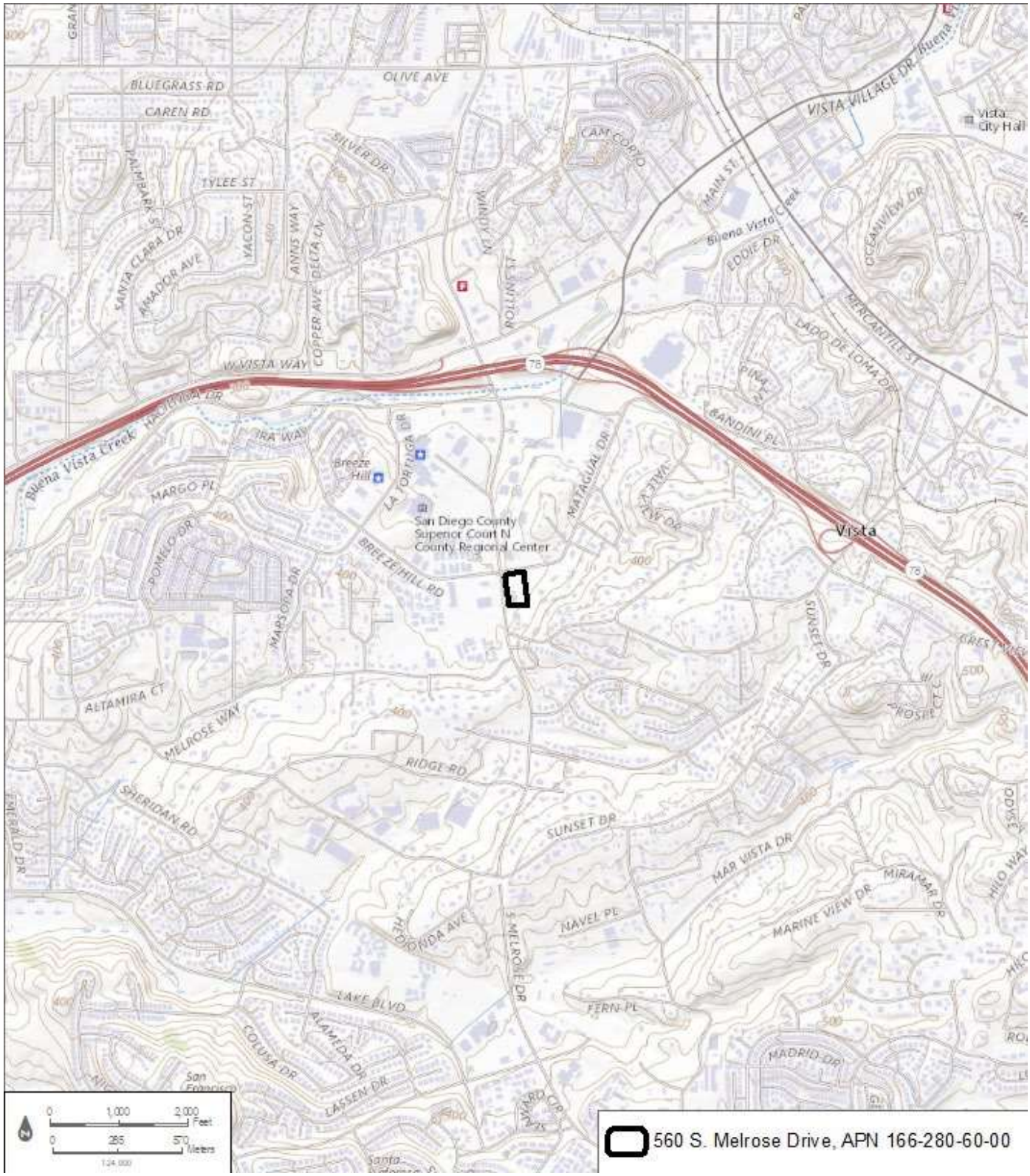
Primary #
HRI#
Trinomial

Page 3 **of** 16

***Resource Name or #** (Assigned by recorder) 560 S Melrose Drive

***Map Name:** San Bernardino Quadrangle

***Scale:** 1:24,000 ***Date of map:** 2022



***P3a. Description (Continued):**

An asphalt sheet clad low-pitched, side-gabled roof with a slightly lower plain at the northmost edge and overhanging closed eaves tops the first mass, while an asphalt sheet clad low-pitched side-gable roof with overhanging closed eaves covers the second mass. The third and fourth mass form the chapel and its entrance. The third mass features a flat roof with a raised overhanging-parapet clad with vertical wood slats and sheet-metal coping, and the fourth mass – the chapel - includes a composition shingle covered steeply-pitched front-facing gable roof with overhanging closed eaves clad in stucco.

The primary (west) elevation features a combination of cladding including concrete masonry units on the first mass, vertical wood-board siding on the second mass, painted rusticated concrete masonry units on the third mass, and smooth stucco on the fourth mass. A painted wood-lattice screen obscures the fenestration on the first mass, and a glass and metal frame double-door with a multi-light transom window sits between the first and second masses. The second mass features a group of wood sash fixed-light and jalousie windows and grouped double-hung windows. The main entrance is a wood multi-panel double-door with stained glass panels is hidden from view on the third mass. Fenestration on the third mass includes a small window obscured by metal security bars on the southside of the building, and within the gable of the fourth mass is a stucco framed cross shape with stained glass that extends the full height of the mass (Figure 1).

The south elevation is comprised of the third and fourth masses featuring a combination of painted rusticated concrete masonry unit siding, smooth stucco siding with three simple buttress supports, and vertical wood-board siding. Fenestration includes a steel sash sliding window with security bars grouped with a steel sash, full-height, three-light, double-hung window with security bars, and a grouping of clerestory stained-glass casement windows. One multi-paneled door is accessible from the east side of the elevation.

The east (rear) elevation includes the fourth, second, and first masses with a combination of smooth stucco siding and vertical wood-board siding. A wood-sash, stained glass, fixed port-window is centered under the gable of the fourth mass and a single-panel door on the northmost side. On the second mass, a metal frame screen door, centrally grouped steel sash double-light casement windows, and wood framed glass double-door are obscured by a tall concrete fence encompassing a rear patio space. Additionally, the first mass features a single-panel door with a jalousie window, a double-door flanked by steel sash triple-light double-hung windows and two projecting rectangular masses each containing a single panel door, and another triple-light double-hung window on the northmost side of the elevation.

The north elevation consists of the fourth and first masses with a combination of smooth stucco siding and vertical wood board siding (Figure 2). The concrete wall obscures the wood framed glass double-door with wood sash side-lights and a single-panel door on the fourth mass. The first mass does not include windows or doors, but instead features a stone fireplace centered on the elevation.

***B6. Construction History (Continued):**

The following exterior alterations were identified through a review of property record research and/or during the survey conducted on August 4, 2022:

- 1970: installation of a sign for First Church of Religious Science (Permit #22-533)
- 1976: frame and masonry addition for administration and foyer west elevation, 700 square feet (Permit #76-156)
- 1979: construction masonry block wall (Permit #790747)
- 2003: sign permit – installation of double faced, non-illuminated monument sign (Permit #B03-0990)
- 2006: reroofing with composition shingles (Permit #B06-1022)
- Rear door infill with vertical wood-board (date unknown)

***B10. Significance (Continued):**

Historical Overview of the City of Vista

The City of Vista was within the lands of Mission San Luis Rey during the Spanish colonial period of the eighteenth and early nineteenth century. Following Mexican independence from Spain in 1821, the area became part of Mexico. Secularization of the missions began in 1833, and the Mission's land holdings were distributed among private citizens. Mission San Luis Rey was divided into six ranchos in the 1830s and 1840s: Santa Margarita, Las Flores, Guajome, Agua Hedionda, Buena Vista, and Monserrate. Rancho Aqua Hedionda, Rancho Buena Vista, and Rancho Guajome became the base of what makes up today's City of Vista. Rancho Guajome, owned by the Cave Couts family, comprised 2,200 acres. It was known for its early irrigation system. Rancho Buena Vista was created in 1845. The Rancho Buena Vista Adobe is now located in a city park at the center of Vista. Rancho Aqua Hedionda consisted of 2,600 acres and is now a county park and museum (City of Vista 2021).

In 1858, John Butterfield established the Butterfield Stage Route along the Southern Emigrant Trail, delivering mail from St. Louis to San Francisco (Cato 2000). The Butterfield route also provided an easier mode of transportation for settlers coming into Southern California, particularly the area around Vista (Van Horn 1974). The start of the Civil War shut down the Butterfield Stage Route after a short 3-year stint, as it passed through Confederate states, and settlement in the area slowed. By the 1870s, ranching had become prosperous in the Vista area (Van Horn 1974).

In 1860, Francis Hinton hired Robert "Uncle John" Kelly as part owner and Major Domo of Rancho Aqua Hedionda. Kelly, originally from the Isle of Man, was a bit of a local legend and a well-known rancher in the southwest. This partnership would lead to Kelly's eventual ownership of the Rancho after Hinton's death in 1870 (Harmon 1961). Kelly granted a coastal right of way for the San Diego Railway, which allowed for San Diego to be connected to all points north. This land along with the land of John Frazier would soon become popular train stops for fresh water on the routes north (Harmon 1967).

One of Vista's early settlers was John Frazier, who opened Vista's first post office in 1882 and gave the city its name. In 1886, the Vista Land Company acquired land from the ranchos for the planning of the City of Vista. By the early 1900s, the center of Vista was subdivided. The Vista Inn and a Santa Fe Railroad train depot, connecting Oceanside to Escondido, were constructed. However, the scarcity of water hindered the growth of Vista in the early 1910s, with a slow increase in population consisting of 1,000. To remedy water concerns, the Vista Irrigation District was formed in 1923, and an aqueduct was built from Lake Henshaw Reservoir. By 1926, Vista had established its own water supply. The town also had a newspaper, the Vista Press. By 1928, the First National Bank was built (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

Residences emerged in the 1920s and 1930s. The population of Vista in the 1930s increased to 10,000. Further agricultural development took place after the construction of an aqueduct increased irrigation and facilitated the growth of crops such as tomatoes, citrus fruit, and avocados. By 1948, Vista was known as the "Avocado Capitol of the World" (City of Vista 2021). That same year, the Avo Theatre opened downtown. After World War II, the population continued to swell. To meet the needs of the growing population, agricultural land was converted into residential areas in the 1950s and 1960s. During that time, the downtown area declined with the introduction of strip malls away from the city center (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

In 1963, Vista became incorporated as a city with a population of 19,000 (Vista Press 1963). By the early 2000s, redevelopment of the downtown area, known as Vista Village, took place and spurred attraction to Vista's downtown. The population of Vista has grown to over 95,000 today (Vista Historical Society and Museum 2022).

History of the Subject Property

After World War II, the population of San Diego boomed as did the construction of new churches. The number of churches in Vista grew with its population. In the late 1950s, three new churches in Vista were planned or in the planning stages, including the Church of Religious Science (The subject property), the Church of Jesus Christ of Latter-Day Saints on Foothill Boulevard, and the Unity Truth Church to be located at 352 West Lando de Loma (BT 1959).

In March 1958, plans for a new church building on Melrose Drive in Vista were announced by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Prior to the construction of the Vista church, the congregation held its meetings at the Chapel of the Pines in Oceanside. Rev. Dr. Featherstone stated that plans for the building included two units, one that would seat 600 people and the other that would seat 200 people. The Vista building was the first Church of Religious Science edifice in North County San Diego. Their doctrine emphasized the power of the mind for healing and fulfillment of life and was based on the teachings of Ernest Holmes, who founded the Institute of Religious Science and Philosophy in Los Angeles in 1927 (CFSL 2022).

Vista contractor J. Edward Esmay was employed to draw up plans for the church to be located at The subject property, 560 South Melrose Dive (SDU 1958a). Archival research revealed little information on Esmay's career other than his 1970 design for a residence located at 520 Pointing Rock Drive, Borrego Springs. In May 1958, Rev. Dr. Featherstone announced that Vista contractors Betraun & Betraun (also known as A.E. Betraun & Sons Construction Company) were awarded a $33,000 contract to construct the new Church of Religious Science in Vista. The company constructed many community buildings in Vista, including the former Vista Irrigation District headquarters located at 202 West Connecticut Avenue (Vista Historical Society and Museum 2018). The smaller unit was constructed first and used as a training area upon the completion of the larger unit, an A-frame chapel. Included in the building plans were a chapel, study library, restrooms, and a fully equipped kitchen (SDU 1958b).

The new Church of Religious Science was completed in August 1958 with its first sermon held in early September. The building cost $40,000 to complete, $7,000 more than its original contract and included seating accommodations for 300 rather than the anticipated 200. The building was planned to be the first of three main buildings erected on the site but appears to be the only building ever constructed (SDU 1958c). Dr. Ernest Holmes, dean and founder of the Church of Religious Science and president of the Institute of Religious Science at Los Angeles spoke at the Vista church's dedication. Rev. Dr. Featherstone also spoke during the dedication ceremony and observed "Friendship Day" during the service (SDU 1958d). Rev. Dr. Featherstone's son, John Featherstone, led the church's youth group, which was organized by the church in connection with the National Organization of Youth in Truth, based out of Los Angeles (SDU 1958e). In 1959, the Church's Board of Trustees officially changed its name from the Oceanside-Vista Church of Religious Studies to the First Church of Religious Studies, Vista due to the church serving not only Oceanside and Vista but multiple other North County San Diego cities (TA 1959).

Throughout the 1960s into the 2000s, the church hosted workshops, youth activities, sermons, support groups, and meditations. In 1961, the Church of Religious Science faith group opened an additional church in Chula Vista located at 277 Church Street. In 1976, the First Church of Religious Science, Vista had a 700-square foot-addition made to its primary (west) elevation, which was used as a foyer and administration offices. The addition obstructed the view of the church's A-frame chapel (City of Vista). The building continued to be used by the Church of Religious Science into the 2000s. By 2009, the building became the Center for Spiritual Discovery, a faith group that held services daily and housed a bookstore. By 2015, the property had become the Thriving Life Church, a non-denominal church, which it remained into 2022.

Architectural Style: Mid-Century Modern, A-Frame Subtype (1945–1965)

The Mid-Century Modern style evolved from the pre- World War II International Style. The roots of the style can be traced to early Modernists like Richard Neutra and Rudolph Schindler, whose work in the Southern California in the 1920s and 1930s inspired "second generation" postwar Modern architects like Gregory Ain, Craig Ellwood, Harwell Hamilton Harris, Pierre Koenig, Raphael Soriano, and many more. These postwar architects developed a regional style, fostered in part by Art and Architecture magazine's pivotal Case Study Program (1945–1966). Postwar Modernism was an antidote to what architects saw as the sterility of earlier Modern architecture that was characterized by geometric forms, smooth stucco wall surfaces, and lack of decorative ornament. Mid-Century Modernism adapted these elements to the local climate and topography, which in Southern California meant the use of wood post-and-beam construction and the incorporation of seamless indoor and outdoor spaces. The style also experimented more with shape, color, and materials. Mid-Century Modernism is often characterized by a clear expression of structure and materials, large expanses of glass, and open interior plans.

In many types of properties, the Mid-Century Modern style fit the postwar need for efficiently built, moderately priced construction. Thus, the style became particularly attractive because its non-ornamental appearance and use of standardized, prefabricated materials was inexpensive to reproduce and permitted quick and economical construction for the multitude of buildings demanded after World War II. The cost-effective nature of the style and the ability to mass-produce Mid-Century Modern building materials like concrete, wood, steel, and glass made it the perfect style for growing cities like San Diego. As a result, it became the predominant architectural style in the postwar years. The Mid-Century Modern movement in San Diego as in other cities in the United States, was characterized by simplistic and clear uses of materials and structural components, open interior planning, and large expanses of glass. (SFPD 2010; City of San Diego 2007).

The subject property is an example of a sub-type of Mid-Century Modern style known as the A-frame. A-frame buildings are defined by their steeply-pitched triangular roof forms that extend partway or entirely to the ground and also serve as exterior walls. The term "A-frame" describes both a method of construction and an architectural style that is associated with the postwar Modern movement. A-frame buildings are a clear expression of Modernism and its prevailing emphasis on producing buildings that were rational, efficient, and stripped of stylistic excess. They are typically expressed in the context of residential architecture, but because the characteristically expressive, jutting roofline of the A-frame draws the eye A-frame buildings lent themselves well to businesses that aspired to draw the attention of passing motorists. (Randl 2004, pp. 11-15; ARG et. al. 2021. pp. 167-176).

Elements of the A-frame idiom were sometimes incorporated into the design of postwar churches. A number of theories have been posited as to why the A-frame and its emphatic roof peak resonated so strongly with churches and churchgoers at this time, some of which are symbolic and others that are more pragmatic. To some, the A-frame's triangular form stood as "a three-dimensional representation of the Holy Trinity." Others interpreted the A-frame as a modern-day take on the Gothic cathedral, boiled down to its essential characteristics of bold, vertical volumes. On a more practical level, churches needed new, larger buildings to house more congregants, and the A-frame offered a way for these churches to create dramatic, expressive spaces with limited resources. By the 1960s it was common for churches to utilize the A-frame to create soaring sanctuary spaces. Due to the somewhat difficult nature of demising interior spaces within the triangle, other functions such as parish halls, kitchens, and offices tended to be located in a wing projecting from the A-frame. Often, these churches and ecclesiastical buildings included other expressionistic characteristics that are more closely associated with the Mid-Century Modern style, though they clearly exhibited elements of the A-frame. (Randl 2004, pp. 137-138; ARG et. al. 2021. P. 173).

Characteristics of the A-Frame subtype of Mid-Century Modern style include the following:

- One story in height
- Triangular shape
- Strong right angles and simple cubic forms
- Steeply sloping roof that extends all or partway to the ground on two sides

- Deep-set eaves
- Stucco, wood (often vertical), or corrugated siding
- Few vertical wall surfaces
- Large windows or groups of windows on front or rear façades

Property Type: Mid-Century Religious Buildings in San Diego

The design of churches during the 1950s in San Diego was becoming more modern. Church architects and builders began incorporating modern methods of construction and materials. Materials such as laminated wood arches and trusses, reinforced concrete, steel, and glass led to new possibilities in shape and form. Additionally, combining modern building materials such as glass and stone veneer allowed for the simple, rectangular gathering space of most religious buildings to look contemporary in design. Despite the use of modern materials, churches were still identifiable as religious buildings through the use of recognizable symbols and forms, such as the cross, steeples, stained glass, and, on the interior, seating arranged in wood pews. Noted examples of this period of modernization in religious building design in San Diego included Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955) (Smith 1958).

By the mid-1960s, church architecture was undergoing a "Modern Renaissance" with new designs being bold, dramatic, different, and varied. After a decade of slow progress, churches embraced Modern design, becoming round, hexagonal, and freeform with abstract expressions of traditional symbolism. Angular shapes became more common with sweeping rooflines either upward or inward like a shell. These new concepts were accepted by many faiths including Catholics, Episcopalians, Lutherans, Presbyterians, Methodists, Religious Science, and Baptists who looked to break from old traditional architectural styles. Architecture became a way for congregations to express their theology in modern forms, new materials, new lighting effects, and new acoustical treatments. The First Church of Religious Science in Vista followed this trend with its Mid-Century Modern design featuring angular roof forms. Churches in San Diego that fully embraced the use of Modern styles for religious architecture included First Lutheran Church of Vista (c. 1966), St. Rose of Lima Church in Chula Vista (1966), First Congregational Church of Lemon Grove (now Shiloh Baptist Church) (1963), St. Paul's Methodist Church in Coronado (1963), and the Church of Jesus Christ of Latter-Day Saints in University City (1966) (Smith 1966,SDU 1968).

NRHP/CRHR Statement of Significance

In consideration of the project site's history and requisite integrity, Dudek recommends the property not eligible for listing in the NRHP and CRHR based on the following significance evaluation and in consideration of national and state eligibility criteria:

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

The subject property is an altered religious building, initially constructed as the First Church of Religious Science in 1958. Archival research did not find any associations between the property and events that have made a significant contribution to the broad patterns of history. For a religious property to have historic significance under Criterion A/1, it must represent important historic or cultural forces. The property does not appear important to the Church of Religious Science's history within the United States and in California. Their beliefs included the power of the mind for healing and fulfillment of life based off Ernest Holmes's teachings from the Institute of Religious Science and Philosophy in Los Angeles, an organization founded in 1927. The First Church of Religious Science in Vista was completed in August 1958, 31 years after the founding of the Institute of Religious Science and Philosophy. The Church of Religious Science continued to expand throughout Southern California following the construction of The subject property, including

the construction of an additional church in Chula Vista, located at 277 Church Street in 1961. There is no indication that the establishment of the First Church of Religious Science in Vista is an important location to religious history or represents an important historic or cultural force associated with the religious group that built the church.

There is no indication that the establishment of the First Church of Religious Science in Vista played an important role in the development of the community of Vista, which began its development in the early 1900s and expanded in 1923 after the formation of the Vista Irrigation District. The Church's establishment did not represent an important event in history, rather it followed a pattern of development that continued through the 1960s in Vista. Archival research failed to reveal that the establishment of the First Church of Religious Science in Vista contributed to the popularity of Vista as a City, rather its establishment came about as a result of residential expansion. The construction of institutions such as churches, schools, and community centers are typical in the early establishment of a community. The subject property, 560 South Melrose Drive merely followed the trend of Vista's development as a residential community in North County San Diego. Research found no association with more specific events or patterns of development that have historical significance at the local, state, or national level. For these reasons, the The subject property, 560 South Melrose Drive does not appear eligible under NRHP Criterion A or CRHR Criterion 1.

Criterion B/2: That are associated with the lives of persons significant in our past.

To be found eligible under Criterion B/2, the property has to be directly tied to an important person and the place where that individual conducted or produced the work for which he or she is known. Archival research failed to indicate any such direct association between individuals that are known to be historic figures at the national, state, or local level and The subject property. The subject property was developed in 1958 as the First Church of Religious Science, Vista. Plans for the new church building in Vista were announced by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Rev. Dr. Featherstone spoke during the dedication ceremony of the church and continued to lead the First Church of Religious Science with the church hosting workshops, youth activities, sermons, support groups, and meditations. Despite Dr. J. Paul Featherstone being a productive member of Vista's community, there is no indication that his activities were important on the national, state, or local level. Archival research failed to reveal that Rev. Dr. J. Paul Featherstone gained importance within his profession as a pastor. A property is not eligible if its only justification for significance is that it was owned or used by a person who is a member of an identifiable profession, class, or social or ethnic group. Therefore, The subject property, 560 South Melrose Drive does not appear eligible under NRHP Criterion B or CRHR Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

A religious property may have historic significance for architectural or artistic values that the property represents. The subject property, 560 South Melrose Drive, which was developed in 1958 as the First Church of Religious Science, Vista does not embody distinctive characteristics of a type, period, or method of construction, or represent the work of a master, and it does not possess high artistic values.

The First Church of Religious Science, Vista was designed by Vista contractor J. Edward Esmay and built by Vista contractors Betraun & Betraun (also known as A.E. Betraun & Sons Construction Company). Archival research revealed little information on Esmay's career other than his 1970 design for a residence located at 520 Pointing Rock Drive, Borrego Springs. Betraun & Betraun constructed many community buildings in Vista, including the former Vista Irrigation District headquarters located at 202 West Connecticut Avenue. There is no indication that Esmay and Betraun & Betraun are

considered masters within their fields. Rather, they were local contractors and builders who did not create distinctive or innovative designs for buildings.

The church displays several character-defining features reflecting the A-frame subtype of the Mid-Century Modern style including: One story in height; triangular shape; strong right angles and simple cubic forms; steeply sloping roof that extends all or partway to the ground on two sides; stucco siding; large windows or groups of windows on front or rear façades. The design on a major thoroughfare attracts attention to its form. However, alterations have detracted from the Mid-Century Modern style, notably from the A-frame shape, including the 1976 addition to the building's primary (west) elevation. This addition obstructed the view of the church's A-frame chapel, a key element of its style. Additionally, comparing the First Church of Religious Science, Vista to other notable examples of churches from the same time period, including Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955), The subject property does not embody distinctive characteristics of a type, period, or method of construction within the context of 1950s and 1960s churches in Vista and San Diego County. The First Church of Religious Science, Vista merely reflected the simple ideas of the Mid-Century Modern architectural style rather than fully embracing the modern forms and new materials as seen in the more fully expressed Mid-Century Modern designs of churches in the geographic area.

As such, The subject property, 560 South Melrose Drive, lacks sufficient distinctive characteristics of a type, period, or method of construction; does not represent the work of a master; does not possess high artistic values; and does not appear to be a potential contributor to a historic district. Therefore, The subject property, 560 South Melrose Drive, does not appear eligible under NRHP Criterion C or CRHR Criterion 3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The subject property, 560 South Melrose Drive is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

City of Vista Criteria

Dudek finds the subject property not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the following significance evaluation and in consideration of local eligibility criteria:

City of Vista Criterion 1: Its association with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States.

As discussed in NRHP/CRHR Criteria A/1, archival research failed to indicate that the establishment of First Church of Religious Science in Vista located on The subject property, 560 South Melrose Drive made a significant contribution to the broad patterns of local history. There is no indication that the establishment of the First Church of Religious Science in Vista served as the focus of the community, which began its development in the early 1900s and expanded in 1923 after the formation of the Vista Irrigation District. The Church's establishment did not represent an important event in history, rather it followed a pattern of development that continued through the 1960s in Vista. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 2: Its association with the lives of persons important to local California

or national history.

As discussed in NRHP/CRHR Criteria B/2, The subject property, 560 South Melrose Drive was developed in 1958 by Rev. Dr. J. Paul Featherstone, pastor of the Vista-Oceanside Church of Religious Science. Archival research failed to reveal that Rev. Dr. J. Paul Featherstone gained importance within his profession as a pastor. Despite Dr. J. Paul Featherstone being a productive member of Vista's community there is no indication that his activities were important on the national, state, or local level. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 3: Its embodiment of the distinctive characteristics of a type, period, region or method of construction; its representation of the work of a master; or its signification of high artistic values.

As discussed in NRHP/CRHR Criteria C/3, The subject property, 560 South Melrose Drive was constructed in 1958 as the First Church of Religious Science, Vista and does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, and it does not possess high artistic values. There is no indication that the church's designer, J. Edward Esmay, and builder, Betraun & Betraun, are recognized as masters within their fields. The church displays several character-defining features reflecting the A-frame subtype of the Mid-Century Modern style; however, alterations have detracted from the Mid-Century Modern style including the 1976 addition to the building's primary (west) elevation. Additionally, comparing the First Church of Religious Science, Vista to other notable examples of churches from the same time period including Saint Sophia Catholic Church in Spring Valley (1958), La Jolla First Baptist Church (now La Jolla Christian Fellowship) (c. 1955), East San Diego Presbyterian Church (1958), and Lemon Grove Methodist Church (1955), The subject property does not embody distinctive characteristics of a type, period, or method of construction within the context of 1950s and 1960s churches in Vista and San Diego County. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 4: Its potential to yield information important to the prehistory or history of the local area, California or the nation.

As discussed in NRHP/CRHR Criteria D/4, The subject property, 560 South Melrose Drive has not yielded, nor is it likely to yield, information of scientific value. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

Integrity:

The subject property, 560 South Melrose Drive contains one church building that has not been moved or relocated; therefore, the property retains integrity of location. Due to an addition made to the building's primary (west) elevation, The subject property has diminished integrity of materials, workmanship, and design. With the construction of the North County Regional Center complex directly northwest of the property, large-scale residential development to the west, commercial and religious development to the north, west, and south, the surrounding neighborhood has changed so integrity of setting is diminished. The property retains integrity of feeling as a religious property constructed in the late 1950s. Finally, The subject property does not have any historical associations with people or events and therefore it does not have integrity of association. In summary, The subject property retains integrity of location and feeling but has diminished setting, design, materials, and workmanship due to alterations and changes to the surrounding area. It lacks integrity of association as it has no historical or architectural significance.

Summary of Evaluation Findings

No historic built environment resources were identified within the Project site as a result of extensive archival research, a field survey, and property significance evaluation. The subject property is not considered a historical resource for the purposes of CEQA. Further, no potential

indirect impacts to historical resources were identified.

Figure 1. Primary (east) elevation and south elevation, view looking northeast, Photo # DSC02673

Figure 2. North elevation, view looking south, Photo # DSC02622

***B12. References:**

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State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #_____
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings_____
Review Code Reviewer Date

Page 1 **of** 12 ***Resource Name or #:** (Assigned by recorder) 622 S Melrose Drive
P1. Other Identifier: subject property/ Property 2

*P2. **Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County** San Diego **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** San Bernardino **Date** 2022 **T** 11S; **R** 4W; **of Sec** 25; San Bernardino **B.M.**
c. Address 622 S. Melrose Drive City Vista Zip 92081
d. UTM: (Give more than one for large and/or linear resources) **Zone** 11S, 476533.00 mE/ 3672016.00 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 166-280-18-00

***P3a. Description**: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
622 South Melrose Drive (APN 166-280-18-00) (The subject property) is located within a residential neighborhood on the eastern side of Melrose Drive and is accessed by an unnamed road perpendicular to Melrose Drive between Matagual Drive and Las Palmas Drive. The parcel is trapezoidal in shape and most of the site is open with some shrubbery and trees near the single-family residence on the northeast side of the property. See continuation sheet.

***P3b. Resource Attributes:** (List attributes and codes) HP2. Single family property

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)

P5b. Description of Photo: (view, date, accession #): View
Primary (west) elevation and north elevation, view looking southwest Photo # DSC02797

***P6. Date Constructed/Age and Source:** ☒ Historic ☐Prehistoric ☐ Both
1949/SD County Assessor

***P7. Owner and Address:**
Suppa Family Trust
PO Box 8336
Rancho Santa Fe, CA 92067

***P8. Recorded by:** (Name, affiliation, and address) [name, last name],
Nicole Frank, Dudek
603 3rd Street
Encinitas, CA 92024

***P9. Date Recorded:**
08/05/2022

***P10. Survey Type:** (Describe)
Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")
Dudek. 2022. *Historical Resources Technical Report, Vista Melrose Residential Project*, City of Vista, San Diego County, California.

*Attachments: ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary # _____
HRI# _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 622 S. Melrose Drive ***NRHP Status Code** 6Z

Page 2 **of** 12

B1. Historic Name: 622 S. Melrose Drive

B2. Common Name: 622 S. Melrose Drive

B3. Original Use: Residence B4. Present Use: Residence

***B5. Architectural Style:** Ranch

***B6. Construction History:** (Construction date, alterations, and date of alterations)

Built 1949, see continuation sheet

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____

***B8. Related Features:**

None

B9a. Architect: unknown b. Builder: unknown

***B10. Significance: Theme** N/A **Area** Vista

Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The The subject property at 622 S Melrose Drive does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, due to a lack of significance. Dudek finds the The subject property not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the significance evaluation and in consideration of local eligibility criteria.

See continuation sheet.

B11. Additional Resource Attributes: (List attributes and codes) None.

***B12. References:**

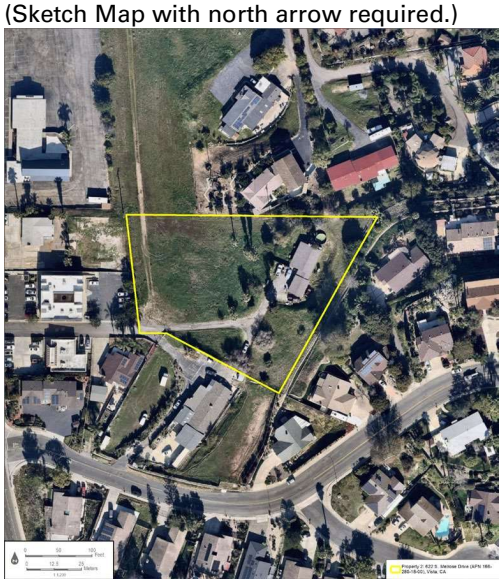
See Continuation sheet.

B13. Remarks:

***B14. Evaluator:** Nicole Frank, MSHP, Dudek

***Date of Evaluation:** 9/7/22

(Sketch Map with north arrow required.)



(This space reserved for official comments.)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

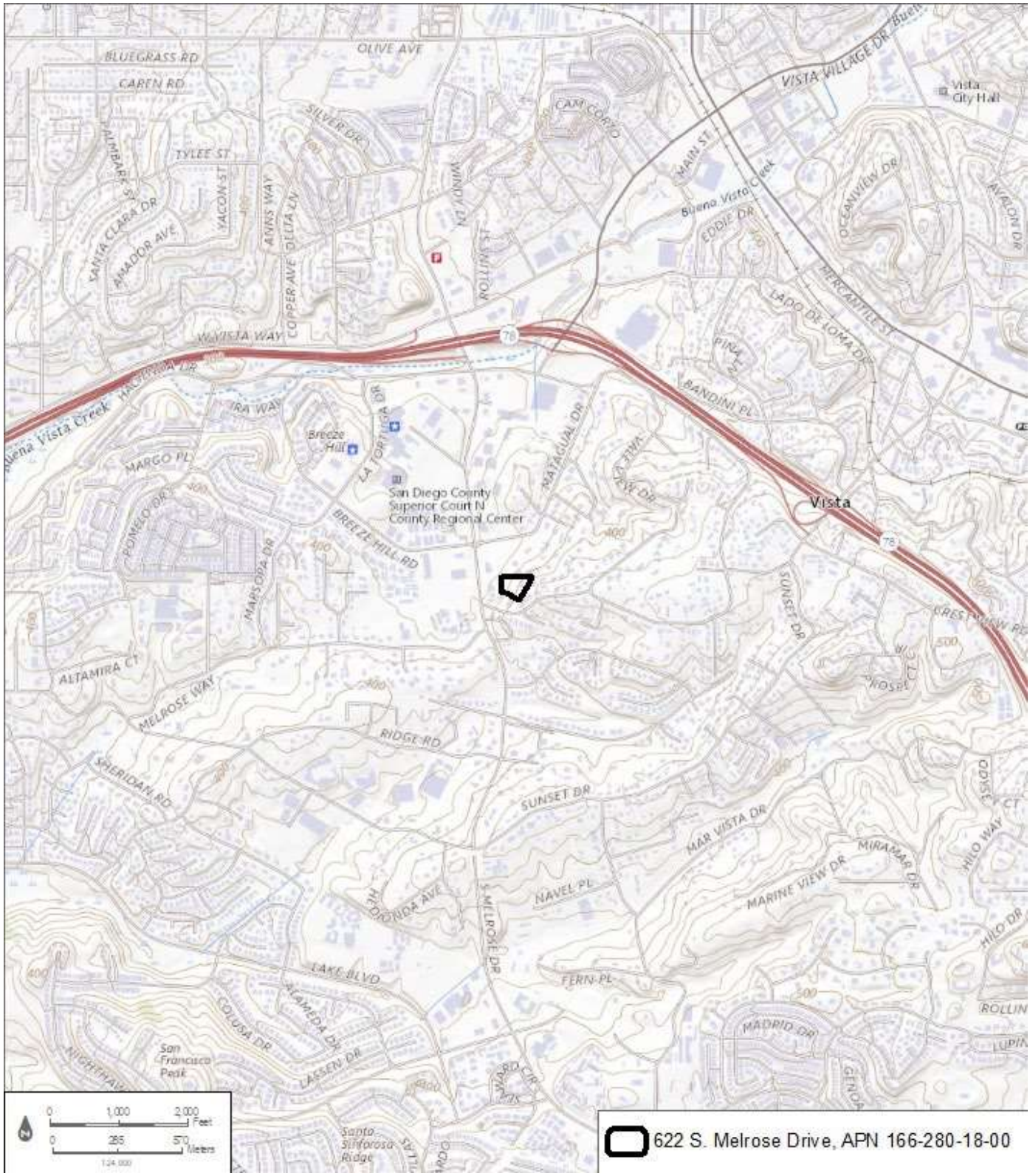
Primary #
HRI#
Trinomial

Page 3 **of** 12

***Resource Name or #** (Assigned by recorder) 622 S Melrose Drive

***Map Name:** San Bernardino Quadrangle

***Scale:** 1:24,000 ***Date of map:** 2022



***P3a. Description (Continued):**

The single-story Ranch style residence was constructed in 1949 with an irregular plan. A shed and garage were constructed adjacent to the south elevation between 1953 and 1964. The residence, garage, and shed have low-pitched side-gable roofs covered with composition shingles and overhanging open eaves. The residence is clad with painted brick siding with vertical wood-board detailing in the gables on the side elevations, while the shed and garage are clad with horizontal wood-board siding.

The primary (west) elevation features a full-length, covered porch with wood post supports. A group of wood sash, multi-light windows and fixed windows, and a metal sash sliding window flank the paneled main entry door. Additional fenestration on the residence includes wood sash double-hung windows, metal sash sliding windows, and partially glazed wood panel door. Fenestration on the rear (east) elevation of the residence is an irregular pattern of wood sash, double-hung windows and metal sash windows (Figure 1). The north side elevation is obscured by wood frame screen cages and fencing as well as a small gambrel roof shed. A painted brick chimney is located on the north elevation.

A vertical wood-board fence separates the residence from the shed and garage on the south elevation. The shed is recessed and features a vertical wood-board double-shed door. A covered walkway separates the shed from the garage and leads to a single-panel door that provides access to the garage from its north elevation. The primary (west) elevation of the garage includes a painted wood garage door. The garage features of variety of fenestration.

***B6. Construction History (Continued):**

The following exterior alterations were identified through a review of property record research and/or during the survey conducted on August 4, 2022:

- 1970: installation of a sign for First Church of Religious Science (Permit #22-533)
- 1976: frame and masonry addition for administration and foyer west elevation, 700 square feet (Permit #76-156)
- 1979: construction masonry block wall (Permit #790747)
- 2003: sign permit – installation of double faced, non-illuminated monument sign (Permit #B03-0990)
- 2006: reroofing with composition shingles (Permit #B06-1022)
- Rear door infill with vertical wood-board (date unknown)

***B10. Significance (Continued):**

Historical Overview of the City of Vista

The City of Vista was within the lands of Mission San Luis Rey during the Spanish colonial period of the eighteenth and early nineteenth century. Following Mexican independence from Spain in 1821, the area became part of Mexico. Secularization of the missions began in 1833, and the Mission's land holdings were distributed among private citizens. Mission San Luis Rey was divided into six ranchos in the 1830s and 1840s: Santa Margarita, Las Flores, Guajome, Agua Hedionda, Buena Vista, and Monserrate. Rancho Aqua Hedionda, Rancho Buena Vista, and Rancho Guajome became the base of what makes up today's City of Vista. Rancho Guajome, owned by the Cave Couts family, comprised 2,200 acres. It was known for its early irrigation system. Rancho Buena Vista was created in 1845. The Rancho Buena Vista Adobe is now located in a city park at the center of Vista. Rancho Aqua Hedionda consisted of 2,600 acres and is now a county park and museum (City of Vista 2021).

In 1858, John Butterfield established the Butterfield Stage Route along the Southern Emigrant Trail, delivering mail from St. Louis to San Francisco (Cato 2000). The Butterfield route also provided an easier mode of transportation for settlers coming into Southern California, particularly the area around Vista (Van Horn 1974). The start of the Civil War shut down the Butterfield Stage Route after a short 3-year stint, as it passed through Confederate states, and settlement in the area slowed. By the 1870s, ranching had become prosperous in the Vista area (Van Horn 1974).

In 1860, Francis Hinton hired Robert "Uncle John" Kelly as part owner and Major Domo of Rancho Aqua Hedionda. Kelly, originally from the Isle of Man, was a bit of a local legend and a well-known rancher in the southwest. This partnership would lead to Kelly's eventual ownership of the Rancho after Hinton's death in 1870 (Harmon 1961). Kelly granted a coastal right of way for the San Diego Railway, which allowed for San Diego to be connected to all points north. This land along with the land of John Frazier would soon become popular train stops for fresh water on the routes north (Harmon 1967).

One of Vista's early settlers was John Frazier, who opened Vista's first post office in 1882 and gave the city its name. In 1886, the Vista Land Company acquired land from the ranchos for the planning of the City of Vista. By the early 1900s, the center of Vista was subdivided. The Vista Inn and a Santa Fe Railroad train depot, connecting Oceanside to Escondido, were constructed. However, the scarcity of water hindered the growth of Vista in the early 1910s, with a slow increase in population consisting of 1,000. To remedy water concerns, the Vista Irrigation District was formed in 1923, and an aqueduct was built from Lake Henshaw Reservoir. By 1926, Vista had established its own water supply. The town also had a newspaper, the Vista Press. By 1928, the First National Bank was built (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

Residences emerged in the 1920s and 1930s. The population of Vista in the 1930s increased to 10,000. Further agricultural development took place after the construction of an aqueduct increased irrigation and facilitated the growth of crops such as tomatoes, citrus fruit, and avocados. By 1948, Vista was known as the "Avocado Capitol of the World" (City of Vista 2021). That same year, the Avo Theatre opened downtown. After World War II, the population continued to swell. To meet the needs of the growing population, agricultural land was converted into residential areas in the 1950s and 1960s. During that time, the downtown area declined with the introduction of strip malls away from the city center (City of Vista 2011, 2021; Vista Historical Society and Museum 2022).

In 1963, Vista became incorporated as a city with a population of 19,000 (Vista Press 1963). By the early 2000s, redevelopment of the downtown area, known as Vista Village, took place and spurred attraction to Vista's downtown. The population of Vista has grown to over 95,000 today (Vista Historical Society and Museum 2022).

History of the Subject Property

In 1949, the single-family residence at The subject property, 622 South Melrose Drive was constructed (San Diego County Assessor). The residence appears in the 1953 aerial image with a square plan and side gabled roof. Historic newspaper research yielded no information about the original owner of the property, and it is not known if the property was originally constructed as part of agricultural development. In 1964, a garage was constructed on the southern end of the property (NETR 2022). At this time, surrounding agricultural land was developed for residences. Barbara Jean Richtelman resided at The subject property in 1965. Historic research yielded limited information about Ms. Richtelman. Historic aerial images show that there have been no noticeable changes to the property since the 1980s. By 1999, the property had become a rental property. The building continues to function as a residence under ownership of Suppa Family Trust. No information was found about Suppa Family Trust as it relates to the property (TA 1965; NCT 1999; NETR 2022; UCSB 2022).

Architectural Style: Ranch Style (1935–1975)

Ranch-style houses in California reflect a national trend of fascination with the "Old West" and were a building style of choice for tract housing. Ranch homes were originally developed in the western and southwestern United States, but quickly gained national popularity through the dissemination of do-it-yourself manuals and plans in national magazines such as *Sunset, Better Homes And Gardens,* and *House Beautiful.* Later, Ranch houses were popular as a custom-built type of housing, which was especially popular in the later 1940s and 1950s. During the 1940s, the style was one of the few built under Federal Housing Administration financing guidelines. Ranch houses built in the 1940s were smaller in size than later versions after builders lobbied for higher loan limits and Federal Housing Administration guidelines were revised in the 1950s. In San Diego and the surrounding cities such as Vista, examples of the style were abundant as it became the most prevalent type of post-World War II suburban tract-style housing (McAlester 2013; City of San Diego 2007).

Ranch style houses are usually a one-story, single-family residence. Houses designed in this architectural style include several identifying characteristics such as rambling, elongated plans; a horizontal emphasis; general asymmetry; free-flowing interior spaces; and a designed connection to the outdoors. Features such as low-pitched roofs with wide eaves, a combination of cladding materials including board-and-batten siding, brick and stone chimneys, and large picture windows were commonly applied and evoked an aesthetic that was reminiscent of these past architectural traditions. Decorative features such as wood shutters and dovecotes were often added to enhance the rusticated appearance of Ranch houses (Grimes and Chiang 2009; Horak et.al. 2015).

Character-defining features include:

- Rambling, elongated plans with a horizontal emphasis
- One to two stories in height
- Low-pitched gabled or hipped roofs with overhanging, open eaves
- General asymmetry
- Free-flowing interior spaces
- Designed connection to the outdoors
- Cladding featuring stucco, board and batten, shingles, clapboard, or a combination of materials
- Brick or stone chimneys details
- Attached garages often linked to residence by breezeways
- Stone, brick, board and batten, clapboard, or horizontal wood siding used for accent on walls, secondary cladding types, and planters
- Functional and non-functional shutters details as trim around windows
- Fenestration may include a picture window

NRHP/CRHR Statement of Significance

622 South Melrose Drive does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, as demonstrated below.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

The subject property, 622 South Melrose Drive includes one residence built in 1949. Archival research did not find any associations between the property and events that have made a significant contribution to the broad patterns of history. The property was completed in 1949, during a postwar population boom that affected not only Vista but much of greater Southern California. Despite the

property reflecting the trend of Vista's residential growth during the late 1940s, there is no indication that the construction of this specific residence marked a pivotal point in the history of the neighborhood or city. It was neither the first nor the last of its type and was merely following a continuous pattern of residential development that continued through the postwar period. The subject property is not known to be directly associated with events that have made a significant contribution to the history of Vista, therefore, it does not appear eligible under NRHP Criterion A or CRHR Criterion 1.

Criterion B/2: That are associated with the lives of persons significant in our past.

To be found eligible under Criterion B/2 the property has to be directly tied to an important person and the place where that individual conducted or produced the work for which he or she is known. Archival research failed to indicate any such direct association between individuals that are known to be historic figures at the national, state, or local level and The subject property, 622 South Melrose Drive. The property was constructed as a residence. The original owner is unknown. Historic newspaper research revealed Barbara Richtelman associated with the residence in 1965. However, research did not uncover any information about Richtelman. Richtelman does not appear to be a person significant in our past. Due to a lack of identified significant associations with important individuals, the The subject property does not appear eligible under NRHP Criterion B or CRHR Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The subject property, 622 South Melrose Drive minimally reflects the Ranch style of architecture. The property has few character-defining architectural features of Ranch style architecture. It possesses the style's characteristic asymmetry, one story height, and an elongated plan, but is an unremarkable example of the type. More distinguished forms of Ranch style residences can be found throughout San Diego County. A number of alterations have taken place including an addition of a garage, garage door replacement, reroofing, window replacement, and an addition of a chicken coop. No building permits were found for the property. Research yielded no information about the architect and the property is likely not the work of a master. As such, the property lacks sufficient distinctive characteristics of a type, period, or method of construction; does not represent the work of a master; does not possess high artistic values; and does not appear to be a potential contributor to a historic district. Therefore, The subject property does not appear eligible under NRHP Criterion C or CRHR Criterion 3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The subject property, 622 South Melrose Drive is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

City of Vista Criteria

Dudek finds the The subject property not eligible for designation in the City of Vista Register of Designated Historic Resources Inventory based on the following significance evaluation and in consideration of local eligibility criteria:

City of Vista Criterion 1: Its association with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States.

As discussed in NRHP/CRHR Criteria A/1, extensive research indicates there is no association between The subject property, 622 South Melrose Drive and events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California of the United States. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 2: Its association with the lives of persons important to local California or national history.

As discussed in NRHP/CRHR Criteria B/2, extensive archival research also indicates that The subject property, 622 South Melrose Drive is not identified with persons or events significant in local, state, or national history. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 3: Its embodiment of the distinctive characteristics of a type, period, region or method of construction; its representation of the work of a master; or its signification of high artistic values.

As discussed in NRHP/CRHR Criteria C/3, the Ranch style residence is a modest example of its type with few noteworthy architectural features. Ranch style buildings such as this are ubiquitous throughout Southern California. It is unknown who designed The subject property, 622 South Melrose Drive, and no building permits were found. The building lacks sufficient distinctive characteristics of a type, period, or method of construction; do not represent the work of a master; and do not possess high artistic values. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

City of Vista Criterion 4: Its potential to yield information important to the prehistory or history of the local area, California or the nation.

As discussed in NRHP/CRHR Criteria D/4, The subject property, 622 South Melrose Drive has not yielded, nor is it likely to yield, information of scientific value. Therefore, it is recommended not eligible for listing in the City of Vista under this criterion.

Integrity:

The subject property, 622 South Melrose Drive contains one residence that has not been moved or relocated; therefore, the property retains integrity of location. Due to various alterations to the residence including window replacement, addition of a garage, addition of a chicken coop, reroofing, and garage door replacement, The subject property has diminished integrity of materials, workmanship, and design. With the construction of the North County Regional Center complex directly northwest of the property, large-scale residential development to the west, commercial and religious development to the north, west, and south, the surrounding neighborhood has changed so integrity of setting is diminished. The property retains integrity of feeling as a single-family residence. Finally, The subject property does not have any historical associations with people or events and therefore it does not have integrity of association. In summary, The subject property, 622 South Melrose Drive retains integrity of location and feeling but has diminished setting, design, materials, and workmanship due to alterations. It lacks integrity of association as it has no historical or architectural significance.

Summary of Evaluation Findings

No historic built environment resources were identified within the Project site as a result of extensive archival research, a field survey, and property significance evaluation. The The subject property is not considered a historical resource for the purposes of CEQA. Further, no potential indirect impacts to historical resources were identified.

Figure 1. Rear (east) elevation, view looking southwest, Photo # DSC02853

***B12. References:**

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Appendix D

Negative Cultural Resources Phase I Letter Report

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

February 2, 2023 14613

Brent A. Little
Urban Advisory & Building Group LLC
2777 Paradise Rd, Suite 3406
Las Vegas, Nevada 89109

Subject: Cultural Resources Inventory Report for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Little:

This letter documents the negative cultural resources inventory conducted by Dudek for the Vista Melrose Residential Project (Project), located in the City of Vista, California (Figure 1). The Project would consist of the construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden. The Project is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. The City of Vista (City) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project area. The Project area consists of approximately 5.28 acres encompassing Assessor Parcel Numbers (APNs) 166-280-60-00, 166-280-61-00, and 166-280-18-00) (Figure 2).

Dudek conducted a records search for the proposed Project including a surrounding one-mile buffer at the South Coastal Information Center (SCIC). The records search did not identify any cultural resources within the Project area; however, 29 cultural resources were identified within the one-mile radius. A Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search was requested, and results were positive.

The SCIC records search and the pedestrian survey did not identify cultural resources within the Project area, however, there are two historic-age structures located within the Project area. The structures are considered built environment resources and are addressed in a separate Built Environment Report (Frank and Greeley 2022). Due to the presence of historic-age structures in the Project area, and because alluvial soils, which has potential to contain subsurface cultural materials, are present throughout the Project area, there is moderate potential for subsurface resources and cultural resources monitoring is recommended. The City of Vista, in consultation with concerned Traditionally and Culturally Affiliated Native American representatives, has determined that cultural resources monitoring with a Qualified Archaeologist and a traditionally and culturally affiliated (TCA) Native American Monitor associated with a TCA tribe is required full-time during, but not limited to, any clearing or grubbing of vegetation, tree removal, demolition and/or removal of remnant foundations, pavements, abandonment and/or installation of infrastructure; grading or any other ground disturbing or altering activities, including the placement of any imported fill materials (note: all fill materials shall be absent of any and all cultural resources); and any related road improvements, including, but not limited to, the installation of infrastructure, realignments, and/or expansions to parking lots.

1 Project Description and Location

The proposed Vista Melrose Residential Project (Project) consists of a residential development within the City of Vista (City) at 560 S. Melrose Drive, 622 S. Melrose Drive and APN#166-280-61-00. The approximately 5.55-acre site includes Assessor's Parcel Numbers [APNs] 166-280-60-00, 166-280-61-00, and 166-280-18-00. The properties at 560 S. Melrose Drive and APN 166-280-61-00 are both currently zoned O-P (Office Professional) and a corresponding General Plan designation of Commercial Office (CO). The property at 622 S. Melrose Drive is currently zoned R-1 (Residential) and has a corresponding General Plan designation of Medium Low Density Residential (MLD). The applicant, TTLC Vista Melrose, LLC, proposes to rezone all three properties to R-1-B (Residential) with a corresponding General Plan change to Medium Density Residential (MD). Furthermore, the applicant proposes a thirty-seven (37) lot Tentative Subdivision Map to redevelop the site to include thirty-four (34) single-family residences, which would result in a proposed density of 6.1 dwelling units per acre, a private street, private park with a tot lot and a dog park. The project will utilize the City of Vista Small Lot Subdivision standards per Vista Development Code Section 18.33 to achieve their project design. The proposed project would also include landscaping and offsite street and utility improvements.

The Project area is bound by Matagual Drive to the north, Las Palmas Drive to the south, and S. Melrose Drive to the west. Buena Vista Creek is located approximately 0.4 miles to the north of the Project area. The Project area falls within Section 25 of Township 11 South, Range 4 West of the San Luis Rey, California 7.5-minute Quadrangle (Figure 1). The Project area consists of approximately 5.28 acres encompassing APNs 166-280-60-00, 166-280-61-00, and 166-280-18-00) (Figure 2).

The northeastern section of the Project area is vacant, the Thriving Life Church and associated parking lot is located on the western section of the Project area, and a single-family residence is located in the southeastern section of the Project area. Demolition would be required as part of the Project implementation to remove the existing church, parking lot, and residence.

2 Regulatory Framework

2.1 The California Register of Historic Resources (Public Resources Code section 5020 et seq.)

Under CEQA, the term "historical resource" includes but is not limited to "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" (California Public Resources Code section 5020.1(j)). In 1992, the California legislature established 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" (California Public Resources Code section 5024.1(a)). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria:

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- 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.
- Has yielded, or may be likely to yield, information important in prehistory or history.

(California Public Resources Code section 5024.1(c).) Resources less than 50 years old are not considered for listing in the CRHR, but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR, section 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 on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

2.2 Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.)

State law 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 establishes the NRHC 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 an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California Public Resources Code section 21083.2(g): Defines "unique archaeological resource."

2. California Public Resources Code 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.

3. California Public Resources Code 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.

4. California Public Resources Code sections 21083.2(b)-(c) and CEQA Guidelines section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options 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" (California Public Resources Code 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 California Public Resources Code section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code 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 (California Public Resources Code 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); California Public Resources Code section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project:

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 Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, 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.

See Section 2.7, below for a discussion of the CEQA guidelines for determining significance and mitigating impacts to unique archaeological resources.

2.5 California Health and Safety Code section 7050.5 and Public Resources Code Section 5097.98

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 below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

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. 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 shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

2.6 Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCR). Public Resources Code section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or

2. determined by a lead agency to be a TCR.

2.7 Guidelines for Determining Significance

According to CEQA (§15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

> Substantial adverse change in the significance of an historical resource 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.

The significance of an historical resource is materially impaired when a project:

- 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 CRHR; or

- 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 Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, 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

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).

- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, and this section, Section 15126.4 of the Guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.

- If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.

- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

> When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:
>
> 1. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
>
> 2. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (California Public Resources Code section 21083.2.) A "unique archaeological resource" is defined as:

> [A]n 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.

(California Public Resources Code section 21083.2(g)). An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (Public Resources Code section 21083.2(a); CEQA Guidelines section 15064.5(c)(4)).

As stated above, CEQA contains rules for mitigation of "unique archaeological resources." For example, "[i]f it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:

1. Planning construction to avoid archaeological sites.

2. Deeding archaeological sites into permanent conservation easements.

3. Capping or covering archaeological sites with a layer of soil before building on the sites.

4. Planning parks, greenspace, or other open space to incorporate archaeological sites." (Pub. Resources Code section 21083.2(b)(1)-(4).)

Public Resources Code section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archaeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

The rules for mitigating impacts to archaeological resources to qualify as "historic resources" are slightly different. According to CEQA Guidelines section 15126.4(b), "[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archaeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archaeological site:

A. Preservation in place is the preferred manner of mitigating impacts to archaeological sites. Preservation in place maintains the relationship between artifacts and the archaeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.

B. Preservation in place may be accomplished by, but is not limited to, the following:

    1. Planning construction to avoid archaeological sites;

    2. Incorporation of sites within parks, greenspace, or other open space;

    3. Covering the archaeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site[; and]

    4. Deeding the site into a permanent conservation easement.

Thus, although section 21083.2 of the Public Resources Code, in addressing "unique archaeological sites," provides for specific mitigation options "in no order of preference," CEQA Guidelines section 15126.4(b), in addressing "historical resources of an archaeological nature," provides that "[p]reservation in place is the preferred manner of mitigating impacts to archaeological sites."

Under CEQA, "[w]hen data recovery through excavation is the only feasible mitigation," the lead agency may cause to be prepared and adopt a "data recovery plan," prior to any excavation being undertaken. The data recovery plan must make "provision for adequately recovering the scientifically consequential information from and about the historic resource." (CEQA Guidelines section 15126.4(b)(3)(C).) The data recovery plan also "must be deposited with the California Historical Resources Regional Information Center." (*Ibid*.) Further, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation." (*Ibid*.)

However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archaeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center." (CEQA Guidelines section 15126.4(b)(3)(D).)

2.8 Vista General Plan 2030

Chapter 4 Resource Conservation and Sustainability Element of the City's General Plan (adopted in 2012) describes cultural, historical, and paleontological resources regulatory framework, and policies and plans to protect such resources (City of Vista 2012). The planning goals and polices are described below.

The City of Vista RCS Goal 11, in the goals and policy section, consists of three policies to assist in the preservation and protection of the City's social, cultural, commercial, architectural, and agricultural history.

> RCS Policy 11.1: Continue to Utilize historical resources, such as the Rancho Buena Vista Adobe, for school programs, community education, and events; and coordinate programming with other historic sites.
>
> RCS Policy 11.2: Continue to preserve Vista's historic adobes and nationally registered and significant historic buildings, such as the Rancho Guajome Adobe and the Braun House. Consider national and local historic designations for eligible City-owned properties.
>
> RCS Policy 11.3: Support preservation of historical resources, including providing for adaptive reuse and tax incentives where appropriate.

The City's goal is to encourage the preservation and protection of these valuable resources through research, inventorying, and education (City of Vista 2012).

3 Methods

3.1 Records Search

Dudek conducted a California Historical Resources Information Systems (CHRIS) records search for the Project area and a one-mile buffer at the South Coastal Information Center (SCIC) at San Diego State University on August 1, 2022. The records search results indicate that 53 previous cultural resources studies have been conducted within one-mile of the Project area. Of the 53 previous studies, two studies intersect the Project area and are listed in Table 1 below. These studies consist of a historic resource survey and a cultural resources evaluation for a master plan. None of the previous cultural resources studies identified any resources within the Project area. The studies that do not intersect the area are included in Confidential Appendix A.

Table 1. Reports Intersecting the Project Area

Report Number	Authors	Date	Title
SD-11228	Marben-Laird Associates	1987	Historic Resource Survey, A Project of the City of Vista, California
SD-11524	Brian F. Smith and Associates	2007	A Cultural Resources Evaluation for the Vista and Buena Sanitation District 2007 Sewer Master Plan Update

The SCIC records search did not identify any cultural resources within the Project area. The records search did identify 29 cultural resources within the one-mile search buffer of the Project area (Table 2). Of the total 29

resources identified in the one-mile buffer, 19 are prehistoric resources and 10 are historic resources. No historic addresses are located within the Project area, however, 12 historic addresses are located within the one-mile search buffer. The results of the records search and all DPR forms are attached as part of Confidential Appendix A.

Table 2. Previously Recorded Cultural Resources in the One-Mile Record Search Radius

Primary Number	Trinomial	Age	Description	In/ Out Project Area
P-37-000637	SDI-000637	Prehistoric	Campsite	Out
P-37-000638	SDI-000638	Prehistoric	Campsite	Out
P-37-000639	SDI-000639	Prehistoric	Campsite	Out
P-37-000640	SDI-000640	Prehistoric	Campsite	Out
P-37-000641	SDI-000641	Prehistoric	Campsite	Out
P-37-000642	SDI-000642	Prehistoric	Campsite	Out
P-37-000643	SDI-000643	Prehistoric	Campsite	Out
P-37-000644	SDI-000644	Prehistoric	Campsite	Out
P-37-000646	SDI-000646	Prehistoric	Bedrock milling	Out
P-37-004930	SDI-004930	Prehistoric	Isolated artifacts (flakes, hammerstones, chopper, scraper)	Out
P-37-005792	SDI-005792	Prehistoric	Trail	Out
P-37-008246	SDI-008246	Prehistoric	Lithic and shell scatter with midden	Out
P-37-020178	-	Historic	Single-family property	Out
P-37-024932	SDI-016502	Prehistoric	Habitation site; human remains	Out
P-37-025151	-	Historic	Single-family property	Out
P-37-025152	-	Historic	Single-family property	Out
P-37-025153	-	Historic	Single-family property and commercial building	Out
P-37-025154	-	Historic	Single-family property and commercial building	Out
P-37-028770	-	Historic	Single-family property	Out
P-37-028773	-	Historic	Commercial building	Out
P-37-029301	SDI-018742	Prehistoric	Bedrock milling feature	Out
P-37-029302	SDI-018743	Prehistoric	Bedrock milling feature	Out
P-37-029303	SDI-018744	Prehistoric	Bedrock milling feature	Out
P-37-029304	-	Prehistoric	Isolate – Lithic flake	Out
P-37-029305	-	Prehistoric	Isolate – Lithic flake	Out
P-37-036153	-	Historic	Single-family property	Out
P-37-036435	-	Historic	Trash scatter	Out
P-37-038601	-	Historic	Road	Out
P-37-039086	-	Prehistoric	Isolate – Lithic debitage	Out

3.2 Archival Research

In addition to the SCIC records search, Dudek conducted an on-line review of historic aerial photographs of the Project area and general vicinity, to help determine the possible development and land use of the Project area in the past. Historic aerial photographs of the Project area were available for 1938, 1946, 1947, 1953, 1964, 1967, 1978, 1980-1986, 1988-1991, 1993-2000, 2002, 2003, 2005, 2009, 2010, 2012, 2014, 2016, and 2018 (NETR 2022). The historic aerial from 1938 revealed that the Project area was undeveloped and the surrounding areas were utilized for agriculture. In addition, S. Melrose Drive and Matagual Drive were dirt roads. The 1946 aerial reveals a single-family residence located immediately south of current Las Palmas Drive and east of S. Melrose Drive. Additionally, the 1946 aerial shows a dirt road trending north-south from Matagual Drive through the northern portion of the Project area. The 1947 aerial reveals no changes to the Project area. By 1953, the aerials show a single-family residence located on the most northeastern portion of the project site, as well as a few dirt roads trending east-west through the southern portion of the Project Boundary. The 1964, a portion of Las Palmas Drive is built to the south and the Thriving Life Church is constructed at the northwestern portion of the Project boundary with single-family residential properties located to the south and the east of the Project area. The 1967 aerial imagery reveals the Project area to be disturbed with development and ground disturbing activities in the current vacant portion of the Project. By 1978, Las Palmas Drive is fully developed. The 1980 aerial imagery shows the Life Thriving Church parking lot paved with asphalt. From 1980 to 1984 the aerial imagery shows no changes in the Project area. By 1985, the aerial imagery reveals grading disturbances immediately west of the Project area for the current Breeze Hill Park and the park is developed by 1986. The aerial imagery of 1988 to 1990 shows no changes in the Project area. The 1991 aerial imagery shows construction of Breeze Hill Elementary and the school is fully developed by 1993. There are no changes seen in the Project area from 1993 to 1997. The 1998 aerial imagery shows one structure built immediately south of the Life Thriving Church in the Project area. The 1998 to 2018 aerial images reveals no changes in the Project area. A review of the historic aerials revealed that there are at least two historic-age structures within the Project area. The structures are considered built environment resources and are addressed in a separate Built Environment Report (Frank and Greeley 2022).

Historic topographic (topo) maps of the Project area were reviewed (earliest map available is 1893). The topo map from 1949 reveals the development of S. Melrose Drive and Matagual Drive. The 1955 topo map shows a structure built south of the current Las Palmas Drive, located outside the Project area. No changes are seen on the 1961 to 1966 topo maps. The 1969 topo map reveals increasing development throughout the Project area. The topo maps from 1970 to 2018 do not show any changes to the Project area.

3.3 Review of Geomorphological Context

According to the U.S. Department of Agriculture Natural Resources Conservation Services (USDA 2022), three soil types are mapped in the Project area, including Placentia sandy loam, 5 to 9 percent slopes, eroded, located within the northwestern portion of the Project area; Bosanko clay, 15 to 30 percent slopes, located within the southeastern and eastern portions of the Project area; and Bosanko clay, 2 to 15 precent, slopes, located in the southwest portion of the Project area. The Placentia soil series generally occur in settings with alluvial fans, deriving from granite and are typically in elevations of 50 to 2,500 feet. The Bosanko clay with 15 to 30 percent slopes soil series generally occur on hillslopes and hills, derive from acid residuum weathered from igneous rock, and are found in areas with elevations ranging from 120 to 1,080 feet. The Bosanko clay with 9 to 15 percent slopes soil series generally occur on hillslopes and hills, derive from residuum weathered from granite, and are found in areas with elevations ranging

from 100 to 2,040 feet. Reoccurring alluvial action and flooding serve to support the development and presence of cultural deposits in the area. Since there are alluvial soils present throughout the Project area, there is moderate potential for subsurface cultural resources.

3.4 NAHC and Tribal Correspondence

Dudek requested a Native American Heritage Commission (NAHC) search of the Sacred Lands File (SLF) on July 22, 2022, for the Project area. The SLF consists of a database of known Native American resources. These resources may not be included in the SCIC database. The NAHC replied on September 6, 2022 with positive results (Appendix B). The NAHC additionally provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in this area.

Dudek staff called and left messages with the La Jolla Band of Luiseño Indians and the San Luis Rey Band of Mission Indians on September 9, 2022. Dudek staff called the Pechanga Band of Mission Indians on September 9, 2022 and were provided information about two placenames and four resources within the vicinity of the Project area, and that more information would be provided in a letter. Outreach letters were mailed on September 14, 2022. These letters attempted to solicit additional information relating to Native American resources that may be impacted by the Project. Native American representatives were requested to define a general area where known resources intersect the Project area.

Two letter responses have been received to date. A response was received by the Pechanga Band of Mission Indians on September 9, 2022, stating that a Traditional Cultural Property is located within five miles of the Project area. Additionally, two Ancestral Placenames are located within a mile of the Project area, and due to the proximity of Buena Vista Creek, two historic-era homesteads, and a large cultural-archaeological site, there is a high possibility of recovering sensitive subsurface resources during ground-disturbing activities for the Project. A response was received from the Rincon Band of Luiseño Indians on October 17, 2022, stating that the Project is located within the Territory of the Luiseño people, and within Rincon Band's specific Area of Historic Interest and recommends the preparation of an archaeological/cultural resources study. These letters have been forwarded to the City and included in the report. Any additional responses received will be forwarded to the City and included in the final draft of this report. The NAHC correspondence is included in Appendix B.

In compliance with Assembly Bill 52, the City, as lead agency, is responsible for conducting government to government consultation with tribal entities.

3.5 Intensive Pedestrian Survey

Dudek archaeologist David Faith conducted an intensive level pedestrian survey of the proposed Project area on August 4, 2022. Saving Sacred Sites Native American monitor Jessica Alexander participated in the pedestrian survey. All survey work was conducted employing standard archaeological procedures and techniques consistent with the Secretary of the Interior Standards. Fifteen-meter interval survey transects were conducted in a north-south direction for the Project area. Within the transects, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal,

glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials.

The Project area has a slight slope facing west and is bound by S. Melrose Drive to the west and Matagual Drive to the north. Approximately 25% of the Project area is developed with asphalt-concrete pavement and the Thriving Life Church building is located in the southwestern corner of the Project area (Figure 3). The remaining 75% of the Project area is mostly vacant with a private residence located in the southeastern corner of the Project area (Figures 4 and 5). Ground visibility was poor (0-25%) in areas where the ground surface was obscured by vegetation; additionally, bioturbation, off-road vehicle tracks, and light modern debris were observed. Vegetation covered approximately 25% of the Project area and consisted of a peppertree, dove weed, hog weed, mustard, mulefat, dead grass, thistle, and shrubs. Soils in the Project area consisted of loosely compacted, light brown dry silt loam. Modern debris (e.g., refuse and destroyed recreational vehicle) were strewn throughout the Project area.

No artifacts or features were identified during this survey. Two historic-age structures were identified within the Project area. The built environment resources are addressed in a separate study for the project (Frank and Greeley 2022).

4 Summary and Management Considerations

4.1 Archaeological Recommendations

Dudek's cultural resources inventory of the Project indicates that there is moderate sensitivity for identifying intact subsurface archaeological deposits during Project implementation. The SCIC records search and the pedestrian survey did not identify any cultural resources within the Project area, however, there are two historic-age structures (e.g. church and single-family property) located in the Project area. Due to the presence of historic-age structures in the Project area, and because alluvial soils, which has potential to contain subsurface cultural materials, are present throughout the Project area, there is moderate potential for subsurface resources and cultural resources monitoring is recommended.

The City of Vista, in consultation with concerned Traditionally and Culturally Affiliated Native American representatives, has determined that cultural monitoring is required. The following standard mitigation measures would reduce potentially significant impacts to cultural resources and human remains to a less-than-significant level:

CR-1 Cultural resource mitigation monitoring shall be conducted on the site to provide for the identification, evaluation, treatment, and protection of any cultural resources that are affected by or may be discovered during the construction of the proposed project. The monitoring shall consist of the full-time presence of a Qualified Archaeologist and a traditionally and culturally affiliated (TCA) Native American Monitor associated with a TCA tribe for, but not limited to, any clearing or grubbing of vegetation, tree removal, demolition and/or removal of remnant foundations, pavements, abandonment and/or installation of infrastructure; grading or any other ground disturbing or altering activities, including the placement of any imported fill materials (note: all fill materials shall be absent of any and all cultural resources); and any related road improvements, including, but not limited to, the installation of

infrastructure, realignments, and/or expansions to parking lots. Other tasks of the monitoring program shall include the following:

- The requirement for cultural resource mitigation monitoring shall be noted on all applicable construction documents, including demolition plans, grading plans, etc.
- The Qualified Archaeologist and TCA Native American Monitor shall attend at least one pre-construction meeting with the Contractor and/or associated Subcontractors (e.g., Grading Contractor) and a representative from the City of Vista's Engineering or Community Development departments to present the archaeological monitoring program as presented in these measures.
- The Qualified Archaeologist shall maintain ongoing collaborative consultation with the TCA Native American Monitor during all ground disturbing or altering activities, as identified above. The Contractor or Grading Contractor shall notify the Director of Community Development & Engineering, preferably through e-mail, of the start and end of all ground-disturbing activities.
- The Qualified Archaeologist and/or TCA Native American Monitor may halt ground-disturbing activities if archaeological artifact deposits or cultural features are discovered. In general, ground-disturbing activities shall be directed away from these deposits for a short time to allow a determination of potential significance, the subject of which shall be determined by the Qualified Archaeologist and the TCA Native American Monitor. If a determination is made that the unearthed artifact deposits or tribal cultural resources are considered potentially significant, the consulting TCA Tribe(s) shall be notified and consulted in regards to the respectful and dignified treatment of those resources. Ground disturbing activities shall not resume until the Qualified Archaeologist, in consultation with the TCA Native American Monitor, deems the cultural resource or feature has been appropriately documented and/or protected. At the Qualified Archaeologist's discretion, the location of ground disturbing activities may be relocated elsewhere on the project site to avoid further disturbance of cultural resources.
- The avoidance and protection of discovered unknown and significant cultural resources and/or unique archaeological resources is the preferable mitigation for the proposed project. If avoidance is not feasible, culturally appropriate treatment of those resources, including but not limited to funding an ethnographic or ethnohistoric study of the resource(s), and/or developing a data recovery plan may be authorized by the City as the Lead Agency under CEQA. If data recovery is required, then the consulting TCA Tribe(s) shall be notified and consulted in drafting and finalizing any such recovery plan.
- Should any cultural resources be found on the project site during construction of the project, consultation with the TCA Tribal Monitor shall occur. Based upon consultation with the TCA monitor, the cultural resources will be relocated for reburial to a portion of the existing site that will remain as open landscaped area (not active recreation areas).

CR-2 Prior to the submission of a grading plan to City staff for review, the Applicant or Owner, and/or Contractor shall enter into a Pre-Excavation Agreement with a Traditionally and Culturally Affiliated

Native American Tribe ("TCA Tribe"). A copy of the agreement shall be included in the grading plan submission. The purpose of this agreement shall be to formalize protocols and procedures between the Applicant or Owner, and/or Contractor, and the TCA tribe for the protection and treatment of, including but not limited to, Native American human remains, funerary objects, cultural and religious landscapes, ceremonial items, traditional gathering areas and cultural items, located and/or discovered through a monitoring program in conjunction with the construction of the proposed project, including additional archaeological surveys and/or studies, excavations, geotechnical investigations, off-site infrastructure installation, grading, and all other ground disturbing activities.

CR-3 Prior to the release of the Grading Bond, a Monitoring Report and/or Evaluation Report, which shall comply with Government Code Section 6254(r), shall be submitted by the Qualified Archaeologist, along with the TCA Native American Monitor's notes and comments, to the City Planner for the project administrative record.

CR-4 All cultural materials that are associated with burial and/or funerary goods shall be repatriated to the Most Likely Descendant as determined by the Native American Heritage Commission (NAHC) per California Public Resources Code Section 5097.98.

CR-5 Recovered cultural material of historic significance, but not of tribal significance, shall be curated with accompanying catalog, photographs, and reports to a San Diego curation facility that meets federal standards per 36 CFR Part 79. If cultural material will be returned to the Tribe(s) rather than curated, diagnostic artifacts or particularly good examples of specific tool types, if such are recovered, should be scanned for 3D printing, with the permission of the Tribe(s). The data from 3D scanning would be curated at an appropriate repository, such as the San Diego Archaeological Center. The cultural material can then be returned to the Tribe(s) for reburial or other treatment. Recovered cultural material of tribal cultural significance shall be repatriated as stipulated in the pre-excavation agreement as described in CR-2.

CR-6 As specified by California Health and Safety Code Section 7050.5, if human remains are found on the project site during construction or during archaeological work, the person responsible for the excavation, or his or her authorized representative, shall immediately notify the San Diego County Coroner's office by telephone. No further excavation or disturbance of the discovery or any nearby area reasonably suspected to overlie adjacent remains (as determined by the Qualified Archaeologist and/or the TCA Native American monitor) shall occur until the Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code 5097.98. If such a discovery occurs, a temporary construction exclusion zone shall be established surrounding the area of the discovery so that the area would be protected (as determined by the Qualified Archaeologist and/or the TCA Native American monitor), and consultation and treatment could occur as prescribed by law. As further defined by State law, the Coroner would determine within two working days of being notified if the remains are subject to his or her authority. If the Coroner recognizes the remains to be Native American, he or she shall contact the Native American Heritage Commission within 24 hours. The Native American Heritage Commission would then make a determination as to the Most Likely Descendent. If Native American remains are discovered, the remains shall be kept in situ ("in place"), or in a secure location in close proximity to where they were found, until after the Medical Examiner makes its determination and notifications, and until after the Most Likely Descendant is identified. The analysis of the remains shall only occur on-site in the presence of a Most Likely Descendant. The specific locations of Native American burials and reburials will be proprietary and not disclosed to the general public. According to California Health and Safety Code, six or more human burials at one location constitute a cemetery

(Section 8100), and disturbance of Native American cemeteries is a felony (Section 7052). In the event that the project proponent and the MLD are in disagreement regarding the disposition of the remains, State law will apply, and the mediation process will occur with NAHC. In the event that mediation is not successful, the landowner shall rebury the remains at a location free from future disturbance (see Public Resources Code Section 5097.98(e) and 5097.94(k)).

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 619.949.3082 or kmontifolca@dudek.com.

Respectfully Submitted,

Keshia Montifolca, M.A., RPA
Archaeologist

Makayla Murillo, B.A.
Archaeologist

Att.: *Figure 1, Project Location*
Figure 2, Project Area Map
Figure 3. Life Thriving Church located at northwest portion of Project area
Figure 4. Vacant area south of Matagual Drive
Figure 5. Single-family property
National Archaeological Database Information Sheet
Confidential Appendix A, SCIC Records Search Results
Appendix B, Tribal Correspondence
cc: *Angela Pham, Micah Hale, Dudek*

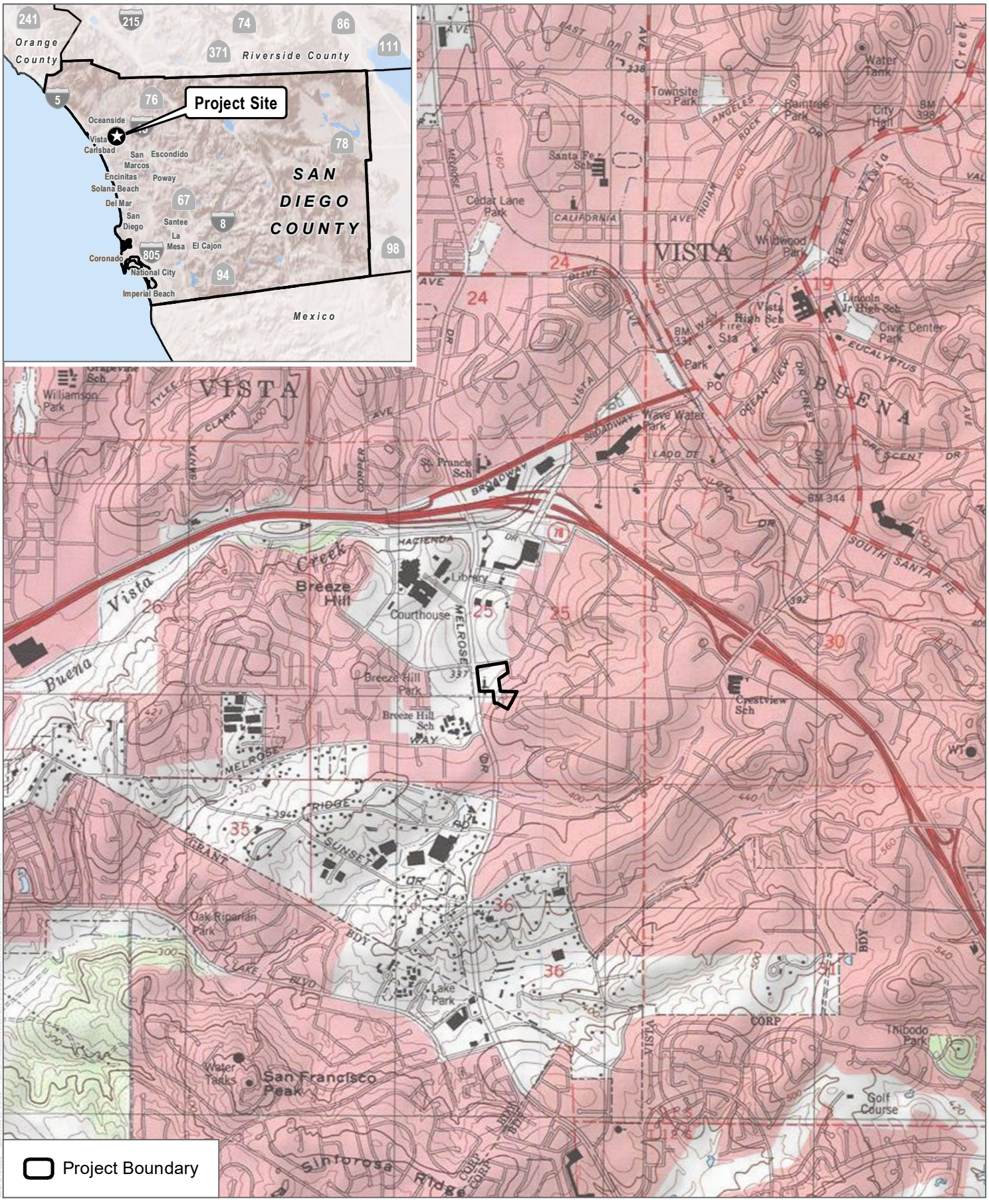
5 References

Frank, Nicole and Caitlin Greeley. 2022. *Historic Resource Technical Report for the Vista Melrose Residential Project, City of Vista, San Diego County, California.* On file at Dudek.

NETR (National Environmental Title Research). 2022. Address search for S. Melrose Drive, Vista, California. Accessed August 15, 2022. http://www.historicaerials.com/.

USDA (U.S. Department of Agriculture). 2002. Web Soil Survey. USDA, Natural Resources Conservation Service, Soil Survey Staff. Accessed August 24, 2022. http://websoilsurvey.nrcs.usda.gov

Vista General Plan 2030. 2012. Accessed May 20, 2022. https://www.cityofvista.com/departments/community-development/permits-forms/vista-general-plan-2030



SOURCE: USGS 7.5-Minute Series San Luis Rey Quadrangle
Township 11S; Range 4W; Section 25

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Vista Melrose

SOURCE: Bing Imagery 2021, Open Street Map

DUDEK

0 50 100 Feet

FIGURE 2

Project Area

Vista Melrose

Figure 3. Life Thriving Church located at northwest portion of Project area, view facing southwest.

Figure 4. Vacant area south of Matagual Drive, view facing north.

Figure 5. Single-family property, view facing south.

National Archaeological Database (NADB) Information

Authors:	Keshia Montifolca M.A., RPA and Makayla Murillo B.A.
Firm:	Dudek
Project Proponent:	Legacy Partners
Report Date:	February 2023
Report Title:	Cultural Resources Inventory Report for the Vista Melrose Residential Project, City of Vista, California
Type of Study:	Cultural Resources Inventory
Resources:	None
USGS Quads:	San Luis Rey, California, Township 11 South, Range 4 West, Section 25
Acreage:	5.28
Permit Numbers:	N/A
Keywords:	Pedestrian Survey, Inventory, City of Vista, Vista Melrose Residential

Confidential Appendix A

SCIC Records Search Results

Appendix B

NAHC Correspondence and Tribal Outreach

APPENDIX B

NAHC Consultation

From: Keshia Montifolca
Sent: Friday, July 22, 2022 10:19 AM
To: nahc@nahc.ca.gov
Cc: Angela Pham
Subject: Sacred Lands Search - Vista Melrose Residential Project (14613)
Attachments: Sacred Lands File Contact Form - Vista Melrose.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi,

Please see attached for a Sacred Lands File Search request for the Vista Melrose Residential Project
(14613). Let me know if you have any questions or need additional information.

Thank you!

Keshia Montifolca, M.A., RPA
Archaeologist

605 Third Street, Encinitas, CA 92024
O: 619.949.3082 C: 619.372.6255
www.dudek.com

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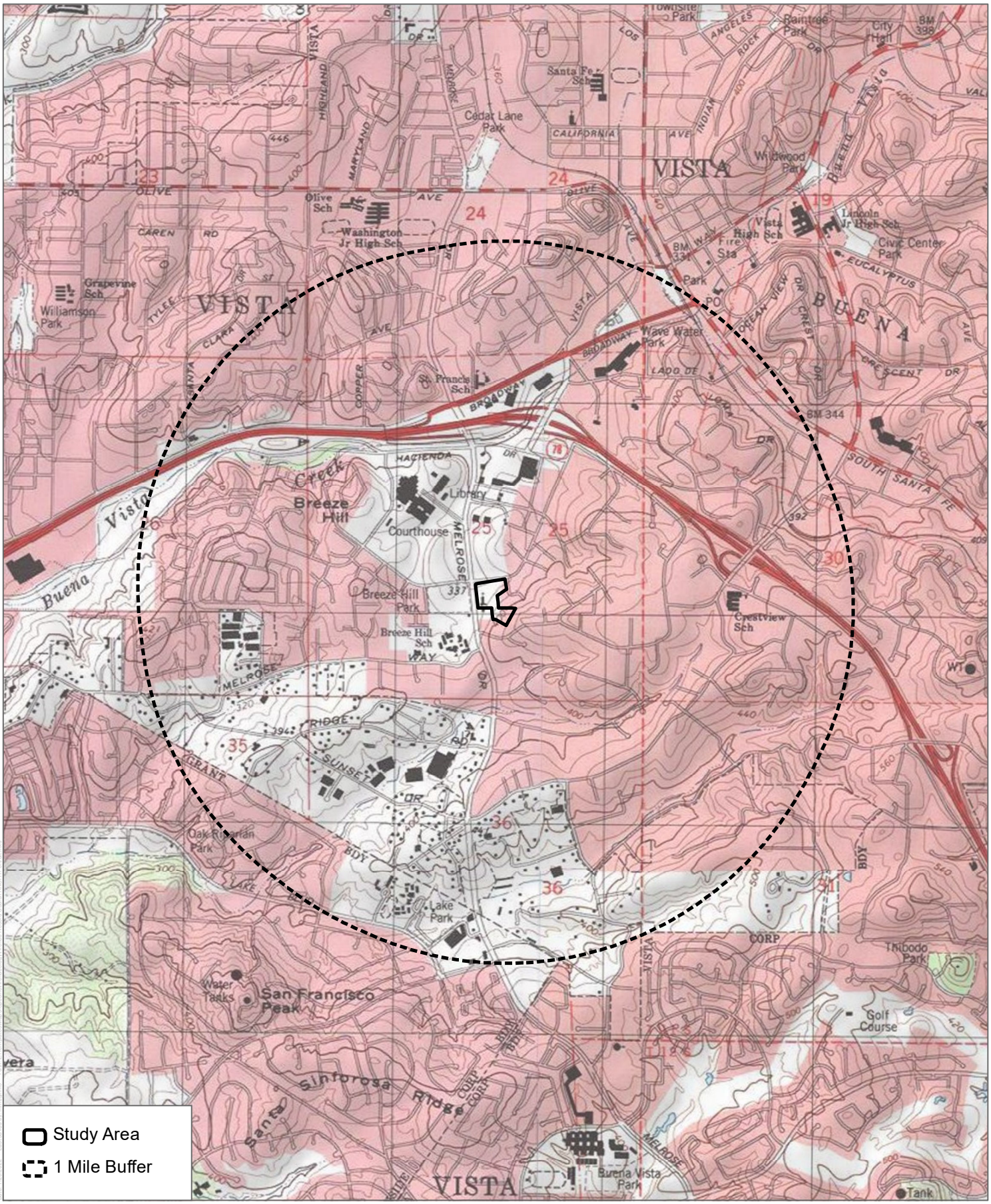

DUDEK

Records Search

Vista Melrose

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

September 6, 2022

Keshia Montifolca
Dudek

Via Email to: kmontifolca@dudek.com

Re: Vista Melrose Residential (PN 14613) Project, San Diego County

Dear Ms. Montifolca:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were positive. Please contact the La Jolla Band of Luiseno Indians, the Pechanga Band of Indians, and the San Luis Rey Band of Mission Indians on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological 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. Please contact all of those listed; if they cannot supply information, they may 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: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Diego County
9/6/2022

Barona Group of the Capitan Grande
Raymond Welch, Chairperson
1095 Barona Road Diegueno
Lakeside, CA, 92040
Phone: (619) 443 - 6612
Fax: (619) 443-0681
counciloffice@barona-nsn.gov

Campo Band of Diegueno Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1 Diegueno
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Robert Pinto, Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 368 - 4382
Fax: (619) 445-9126
ceo@ebki-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Michael Garcia, Vice Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 933 - 2200
Fax: (619) 445-9126
michaelg@leaningrock.net

Iipay Nation of Santa Ysabel
Virgil Perez, Chairperson
P.O. Box 130 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 765 - 0845
Fax: (760) 765-0320

Iipay Nation of Santa Ysabel
Clint Linton, Director of Cultural Resources
P.O. Box 507 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 803 - 5694
clint@redtailenvironmental.com

Inaja-Cosmit Band of Indians
Rebecca Osuna, Chairperson
2005 S. Escondido Blvd. Diegueno
Escondido, CA, 92025
Phone: (760) 737 - 7628
Fax: (760) 747-8568

Jamul Indian Village
Lisa Cumper, Tribal Historic Preservation Officer
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4855
lcumper@jiv-nsn.gov

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817
epinto@jiv-nsn.gov

Kwaaymii Laguna Band of Mission Indians
Carmen Lucas,
P.O. Box 775 Kwaaymii
Pine Valley, CA, 91962 Diegueno
Phone: (619) 709 - 4207

La Jolla Band of Luiseno Indians
Norma Contreras, Chairperson
22000 Highway 76 Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 3771

La Posta Band of Diegueno Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

This list is current only as of the date of this document. 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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

La Posta Band of Diegueno Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road — Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302 — Diegueno
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

Mesa Grande Band of Diegueno Mission Indians
Michael Linton, Chairperson
P.O Box 270 — Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 782 - 3818
Fax: (760) 782-9092
mesagrandeband@msn.com

Pala Band of Mission Indians
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Rd. — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3515
Fax: (760) 742-3189
sgaughen@palatribe.com

Pauma Band of Luiseno Indians
Temet Aguilar, Chairperson
P.O. Box 369 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422
bennaecalac@aol.com

Pechanga Band of Indians
Paul Macarro, Cultural Resources Coordinator
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6306
Fax: (951) 506-9491
pmacarro@pechanga-nsn.gov

Pechanga Band of Indians
Mark Macarro, Chairperson
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6000
Fax: (951) 695-1778
epreston@pechanga-nsn.gov

Rincon Band of Luiseno Indians
Bo Mazzetti, Chairperson
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 749 - 1051
Fax: (760) 749-5144
bomazzetti@aol.com

Rincon Band of Luiseno Indians
Cheryl Madrigal, Tribal Historic Preservation Officer
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 297 - 2635
crd@rincon-nsn.gov

San Luis Rey Band of Mission Indians
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

San Luis Rey Band of Mission Indians
San Luis Rey, Tribal Council
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

Native American Heritage Commission
Native American Contact List
San Diego County
9/6/2022

San Pasqual Band of Diegueno Mission Indians
John Flores, Environmental Coordinator
P. O. Box 365 — Diegueno
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

San Pasqual Band of Diegueno Mission Indians
Allen Lawson, Chairperson
P.O. Box 365 — Diegueno
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Sycuan Band of the Kumeyaay Nation
Cody Martinez, Chairperson
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation
Kristie Orosco, Kumeyaay Resource Specialist
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 6917

Viejas Band of Kumeyaay Indians
John Christman, Chairperson
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337

Viejas Band of Kumeyaay Indians
Ernest Pingleton, Tribal Historic Officer, Resource Management
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 659 - 2314
epingleton@viejas-nsn.gov

This list is current only as of the date of this document. 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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Cultural Department ,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Cultural Department,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

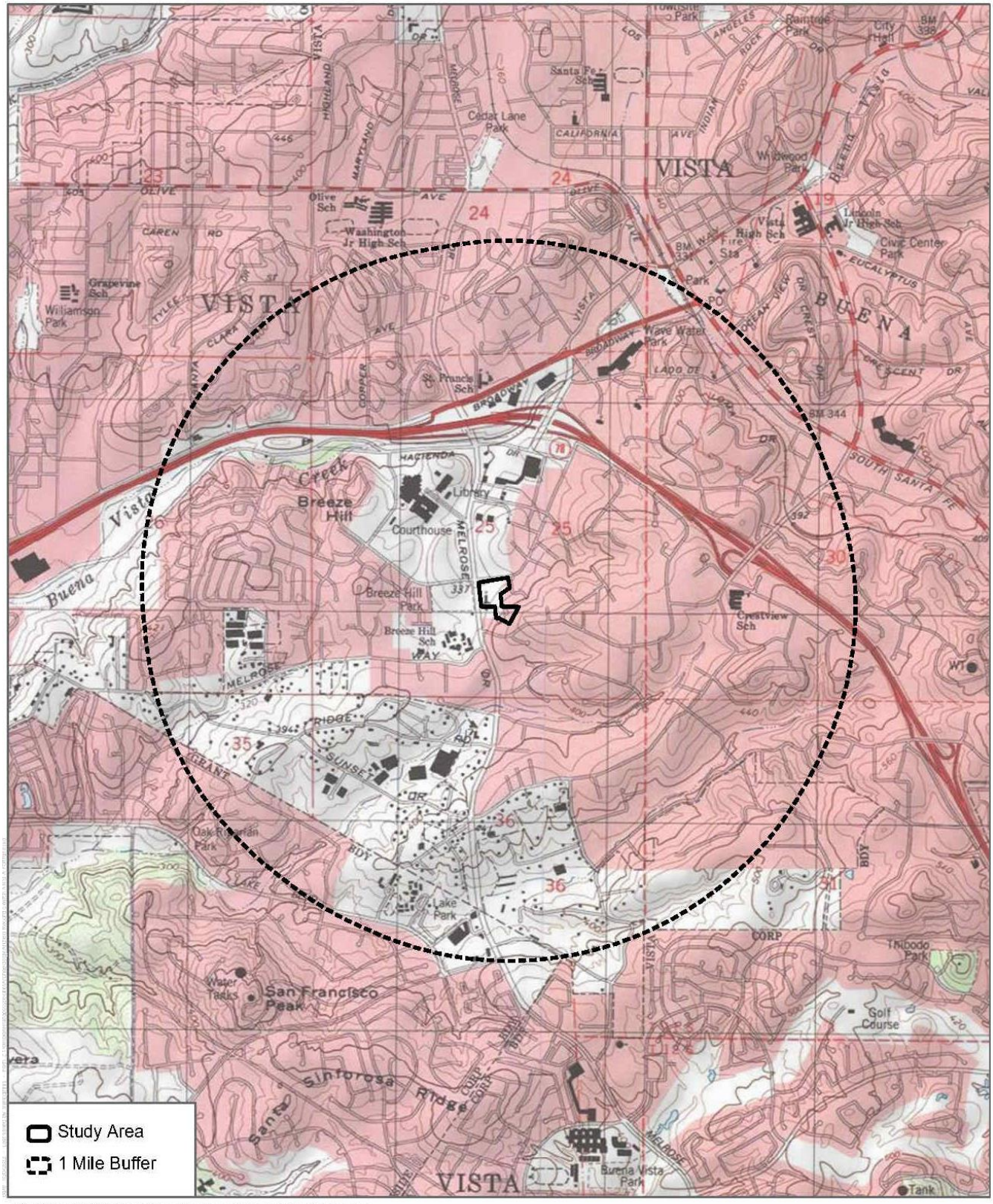
The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*



SOURCE: USGS 7.5-Minute Series San Marcos & San Luis Rey Quadrangles
Township 11S; Range 4W, 3W; Sections 19, 23, 24, 25, 26, 30, 31, 35, 36

DUDEK

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Records Search
Vista Melrose

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Tribal Council,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Tribal Council,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

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MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Temet Aguilar, Chairperson
Pauma & Yuima Reservation
P.O. Box 369
Pauma Valley, CA 92061

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Aguilar,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Sheilia Alvarez,
Barona Group of the Capitan Grande
1095 Barona Road
Lakeside, CA 92040

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Alvarez,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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T 800.450.1818 F 760.632.0164

Ms. Norma Contreras, Chairperson
La Jolla Band of Mission Indians
22000 Highway 76
Pauma Valley, CA 92061

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Contreras,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Ms. Lisa Cumper, THPO
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Cumper,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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T 800.450.1818 F 760.632.0164

Mr. Michael Garcia, Vice Chairperson
Ewiiaapaayp Tribe
4054 Willows Road
Alpine, CA 91901

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Garcia,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Ms. Shasta Gaughen, Tribal Historic Preservation Officer
Pala Band of Mission Indians
35008 Pala Temecula Rd.
Pala, CA 92059

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Gaughen,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Mr. Ralph Goff, Chairperson
Campo Band of Diegueno Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Goff,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Clint Linton, Director of Cultural Resources
Ipay Nation of Santa Ysabel
P.O. Box 507
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Linton,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Michael Linton, Chairperson
Mesa Grande Band of Dieguneo Mission Indians
P.O. Box 270
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Linton,

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T 800.450.1818 F 760.632.0164

Ms. Carmen Lucas,
Kwaaymii Laguna Band of Mission Indians
P.O. Box 775
Pine Valley, CA 91962

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Lucas,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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T 800.450.1818 F 760.632.0164

Mr. Mark Macarro, Chairperson
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Macarro,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Attachments: *Figure 1. Regional project map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Paul Macarro, Cultural Resources Manager
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Cheryl Madrigal, Tribal Historic Preservation Officer
Rincon Band of Mission Indians
One Governement Center Lane
Valley Center, CA 92082

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Madrigal,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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T 800.450.1818 F 760.632.0164

Mr. Bo Mazzetti, Chairperson
Rincon Band of Luiseño Indians
1 Government Center Lane
Valley Center, CA 92082

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Mazzetti,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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T 800.450.1818 F 760.632.0164

Ms. Javaughn Miller, Tribal Administrator
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Miller,

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Ms. Rebecca Osuna, Chairperson
Inaja-Cosmit Band of Indians
2005 S. Escondido Blvd.
Escondido, CA 92025

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Osuna,

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Ms. Gwendolyn Parada, Chairperson
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Parada,

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Mr. Virgil Perez, Chairperson
Iipay Nation of Santa Ysabel
P.O. Box 130
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Perez,

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Ms. Erica Pinto, Chairperson
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

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DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Robert Pinto, Chairperson
Ewiaapaayp Tribe
4054 Willow Rd.
Alpine, CA 91901

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Pinto,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Edwin (Thorpe) Romero, Chairperson
Barona Group of the Capitan Grande
1095 Barona Road
Lakeside, CA 92040

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Romero,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

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605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Angela Elliott Santos, Chairperson
Manzanita Band of Kumeyaay Nation
P.O. Box 1302
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Santos,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

PECHANGA CULTURAL RESOURCES

Pechanga Band of Indians

Post Office. Box 2183 • Temecula, CA 92593
Telephone (951) 770-6300 • Fax (951) 506-9491

Chairperson:
Neal Ibanez

Vice Chairperson:
Bridgett Barcello

Committee Members:
Darlene Miranda
Richard B. Scearce, III
Robert Villalobos
Shevon Torres
Juan Rodriguez

Direcctor:
Gary DuBois

Coordinator:
Paul Macarro

Cultural Analyst:
Tuba Ebru Ozdil

September 08, 2022

VIA E-Mail and USPS
Makayla Murillo, B.A., RPA
Archaeologist
DUDEK
605 Third Street,
Encinitas, CA. 92024

RE: Request for Information for the Vista Melrose Residential Project, City of Vista, San Diego County, CA

Dear Ms. Murillo,

The Pechanga Band of Indians ("the Tribe") appreciates your request for information regarding the above referenced Project. After reviewing the provided maps and our internal documents, we have determined that the Project-area is not within our Reservation land's, although it is located in Our Ancestral Territory. At this time, we are interested in participating in this Project based upon our 'Ayélkwish/Traditional Knowledge of the area. This Project is situated 4.87 miles due east to our Traditional Cultural Property. There are two Ancestral Placenames at .60 and .78 of-a-mile (respectively) away from the APE. This Project is .37 of-a-mile from a large cultural-archaeological site. Buena Vista Creek is situated .46 of-a-mile due north of the Project's boundary which is very concerning, because of our Culture's-practice for the Ancestors being buried near confluences-of or near long-term waterways. A 1900 Historic Plat Map shows this Project-parcel being .34 of-a-mile due east of "J. Boyle's House" and .55 of-a-mile due west of "P. Boyle's House." Typically, a good place to live for the Ancestors became a good place to live for historic-era homesteaders. Historic aerials from 1938-forward depict this property as being undeveloped until the early 1960's, when a church was erected on the western-portion of the parcel. From 1938 to the present-day the majority of the field, on eastern-portion has remained undeveloped. The Tribe anticipates that intact native soils lay beneath the east-side of this parcel's plow-zone. Considering this information provided above, the nearby presence or Ancestral human remains, and because of extensive previously recorded sites in this Project's vicinity the Tribe therefore, is interested in participating in this Project. The Pechanga Tribe believes that the possibility of recovering sensitive subsurface resources during ground-disturbing activities for this Project is extremely high.

The Tribe is dedicated to providing comprehensive cultural information to you and your firm for inclusion in the archaeological study as well as to the Lead Agency for CEQA review. At this time, the Tribe requests the following so we may continue the consultation process and to provide adequate and appropriate recommendations for the Project:

1) Notification once the Project begins the entitlement process, if it has not already;
2) Copies of all applicable archaeological reports, site records, proposed grading plans and environmental documents (EA/IS/MND/EIR, etc);
3) Government-to-government consultation with the Lead Agency; and
4) The Tribe believes that monitoring by a San Diego County qualified archaeologist and a professional Pechanga Tribal Monitor may be required during earthmoving activities. Therefore, the Tribe reserves its right to make additional comments and recommendations once the environmental documents have been received and fully reviewed. Further, in the event that subsurface cultural resources are identified, the Tribe requests consultation with the Project proponent and Lead Agency regarding the treatment and disposition of all artifacts.

As a Sovereign governmental entity, the Tribe is entitled to appropriate and adequate government-to-government consultation regarding the proposed Project. We would like you and your client to know that the Tribe does not consider initial inquiry letters from project consultants to constitute appropriate government-to-government consultation, but rather tools to obtain further information about the Project area. Therefore, the Tribe reserves its rights to participate in the formal environmental review process, including government-to-government consultation with the Lead Agency, and requests to be included in all correspondence regarding this Project.

Please note that we are interested in participating in surveys within Luiseño Ancestral territory. Prior to conducting any surveys, please contact the Cultural Department to schedule specifics. If you have any additional questions or comments, please contact me at pmacarro@pechanga-nsn.gov or 951-770-6306.

Sincerely,

Paul E. Macarro

Paul E. Macarro
Cultural Coordinator
Pechanga Reservation

Rincon Band of Luiseño Indians

CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov

October 17, 2022

Sent via email: mmurillo@dudek.com
DUDEK
Makayla Murillo
605 Third Street
Encinitas, CA 92024

Re: Vista Melrose Residential Project, City of Vista, California

Dear Ms. Murillo,

This letter is written on behalf of the Rincon Band of Luiseño Indians ("Rincon Band" or "Tribe"), a federally recognized Indian Tribe and sovereign government. We have received your notification regarding the above referenced project and we thank you for the opportunity to provide information pertaining to cultural resources. The identified location is within the Territory of the Luiseño people, and is also within Rincon Band's specific Area of Historic Interest (AHI).

Based on the information provided to us, the Rincon Band recommends conducting an archaeological/cultural resources study, to include an archeological record search and complete intensive survey of the property. Additionally, we ask that a professional Tribal monitor from the Rincon Band to accompany the archaeologist during the survey.

The Rincon Band further requests to consult directly with the lead agency regarding project impacts to cultural resources. While it is not the responsibility of consultants to facilitate State-mandated consultation, the request is included in this letter, so the lead agency is aware of the Tribe's concerns about the project.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749-1092 or via electronic mail at cmadrigal@rincon-nsn.gov. We look forward to working together to protect and preserve our cultural assets.

Sincerely,

Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager

Bo Mazzetti, Chairman | Tishmall Turner, Vice Chair | Laurie E. Gonzalez, Council Member | John Constantino, Council Member | Joseph Linton, Council Member

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

October 28, 2022 14613

Brent A. Little
Urban Advisory & Building Group LLC
2777 Paradise Rd, Suite 3406
Las Vegas, Nevada 89109

Subject: Cultural Resources Inventory Report for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Little:

This letter documents the negative cultural resources inventory conducted by Dudek for the Vista Melrose Residential Project (Project), located in the City of Vista, California (Figure 1). The Project would consist of the construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden. The Project is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. The City of Vista (City) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project area. The Project area consists of approximately 5.28 acres encompassing Assessor Parcel Numbers (APNs) 166-280-60-00, 166-280-61-00, and 166-280-18-00) (Figure 2).

Dudek conducted a records search for the proposed Project including a surrounding one-mile buffer at the South Coastal Information Center (SCIC). The records search did not identify any cultural resources within the Project area; however, 29 cultural resources were identified within the one-mile radius. A Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search was requested, and results were positive.

The SCIC records search and the pedestrian survey did not identify cultural resources within the Project area, however, there are two historic-age structures located within the Project area. The structures are considered built environment resources and are addressed in a separate Built Environment Report (Frank and Greeley 2022). Due to the presence of historic-age structures in the Project area, and because alluvial soils, which has potential to contain subsurface cultural materials, are present throughout the Project area, there is moderate potential for subsurface resources. Cultural resources monitoring with a qualified archaeologist and Luiseño Native American monitor is recommended during initial ground-disturbing activities within the Project area to assess the extent of previous disturbances and the potential for buried archaeological resources. Monitoring can be reduced or terminated should no discoveries be made or if documentation is provided which demonstrates that ground-disturbing activities will be occurring in sediments with no potential for cultural resources.

1 Project Description and Location

The Project area is bound by Matagual Drive to the north, Las Palmas Drive to the south, and S. Melrose Drive to the west. Buena Vista Creek is located approximately 0.4 miles to the north of the Project area. The Project area falls within Section 25 of Township 11 South, Range 4 West of the San Luis Rey, California 7.5-minute Quadrangle (Figure 1). The Project area consists of approximately 5.28 acres encompassing APNs 166-280-60-00, 166-280-61-00, and 166-280-18-00) (Figure 2).

The Project would consist of the construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista, California. The northeastern section of the Project area is vacant, the Thriving Life Church and associated parking lot is located on the western section of the Project area, and a single-family residence is located in the southeastern section of the Project area. Demolition would be required as part of the Project implementation to remove the existing church, parking lot, and residence.

2 Regulatory Framework

2.1 The California Register of Historic Resources (Public Resources Code section 5020 et seq.)

Under CEQA, the term "historical resource" includes but is not limited to "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" (California Public Resources Code section 5020.1(j)). In 1992, the California legislature established 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" (California Public Resources Code section 5024.1(a)). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria:

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- 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.
- Has yielded, or may be likely to yield, information important in prehistory or history.

(California Public Resources Code section 5024.1(c).) Resources less than 50 years old are not considered for listing in the CRHR, but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR, section 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 on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

2.2 Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.)

State law 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 establishes the NRHC 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 an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California Public Resources Code section 21083.2(g): Defines “unique archaeological resource.”

2. California Public Resources Code 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.

3. California Public Resources Code 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.

4. California Public Resources Code sections 21083.2(b)-(c) and CEQA Guidelines section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options

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" (California Public Resources Code 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 California Public Resources Code section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code 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 (California Public Resources Code 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); California Public Resources Code section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project:

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 Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, 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.

See Section 2.7, below for a discussion of the CEQA guidelines for determining significance and mitigating impacts to unique archaeological resources.

2.5 California Health and Safety Code section 7050.5 and Public Resources Code Section 5097.98

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 below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

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. 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 shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

2.6 Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCR). Public Resources Code section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or

2. determined by a lead agency to be a TCR.

2.7 Guidelines for Determining Significance

According to CEQA (§15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

> Substantial adverse change in the significance of an historical resource 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.

The significance of an historical resource is materially impaired when a project:

- 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 CRHR; or

- 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 Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g)

of the Public Resources Code, 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

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).

- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, and this section, Section 15126.4 of the Guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.

- If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.

- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

> When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:
>
> 1. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
>
> 2. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (California Public Resources Code section 21083.2.) A “unique archaeological resource” is defined as:

[A]n 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.

(California Public Resources Code section 21083.2(g)). An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (Public Resources Code section 21083.2(a); CEQA Guidelines section 15064.5(c)(4)).

As stated above, CEQA contains rules for mitigation of "unique archaeological resources." For example, "[i]f it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:

1. Planning construction to avoid archaeological sites.

2. Deeding archaeological sites into permanent conservation easements.

3. Capping or covering archaeological sites with a layer of soil before building on the sites.

4. Planning parks, greenspace, or other open space to incorporate archaeological sites." (Pub. Resources Code section 21083.2(b)(1)-(4).)

Public Resources Code section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archaeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

The rules for mitigating impacts to archaeological resources to qualify as "historic resources" are slightly different. According to CEQA Guidelines section 15126.4(b), "[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archaeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archaeological site:

A. Preservation in place is the preferred manner of mitigating impacts to archaeological sites. Preservation in place maintains the relationship between artifacts and the archaeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.

B. Preservation in place may be accomplished by, but is not limited to, the following:

1. Planning construction to avoid archaeological sites;

2. Incorporation of sites within parks, greenspace, or other open space;

3. Covering the archaeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site[; and]

4. Deeding the site into a permanent conservation easement.

Thus, although section 21083.2 of the Public Resources Code, in addressing "unique archaeological sites," provides for specific mitigation options "in no order of preference," CEQA Guidelines section 15126.4(b), in addressing "historical resources of an archaeological nature," provides that "[p]reservation in place is the preferred manner of mitigating impacts to archaeological sites."

Under CEQA, "[w]hen data recovery through excavation is the only feasible mitigation," the lead agency may cause to be prepared and adopt a "data recovery plan," prior to any excavation being undertaken. The data recovery plan must make "provision for adequately recovering the scientifically consequential information from and about the historic resource." (CEQA Guidelines section 15126.4(b)(3)(C).) The data recovery plan also "must be deposited with the California Historical Resources Regional Information Center." (*Ibid*.) Further, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation." (*Ibid*.)

However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archaeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center." (CEQA Guidelines section 15126.4(b)(3)(D).)

2.8 Vista General Plan 2030

Chapter 4 Resource Conservation and Sustainability Element of the City's General Plan (adopted in 2012) describes cultural, historical, and paleontological resources regulatory framework, and policies and plans to protect such resources (City of Vista 2012). The planning goals and polices are described below.

The City of Vista RCS Goal 11, in the goals and policy section, consists of three policies to assist in the preservation and protection of the City's social, cultural, commercial, architectural, and agricultural history.

> RCS Policy 11.1: Continue to Utilize historical resources, such as the Rancho Buena Vista Adobe, for school programs, community education, and events; and coordinate programming with other historic sites.
>
> RCS Policy 11.2: Continue to preserve Vista's historic adobes and nationally registered and significant historic buildings, such as the Rancho Guajome Adobe and the Braun House. Consider national and local historic designations for eligible City-owned properties.
>
> RCS Policy 11.3: Support preservation of historical resources, including providing for adaptive reuse and tax incentives where appropriate.

The City's goal is to encourage the preservation and protection of these valuable resources through research, inventorying, and education (City of Vista 2012).

3 Methods

3.1 Records Search

Dudek conducted a California Historical Resources Information Systems (CHRIS) records search for the Project area and a one-mile buffer at the South Coastal Information Center (SCIC) at San Diego State University on August 1, 2022. The records search results indicate that 53 previous cultural resources studies have been conducted within one-mile of the Project area. Of the 53 previous studies, two studies intersect the Project area and are listed in Table 1 below. These studies consist of a historic resource survey and a cultural resources evaluation for a master plan. None of the previous cultural resources studies identified any resources within the Project area. The studies that do not intersect the area are included in Confidential Appendix A.

Table 1. Reports Intersecting the Project Area

Report Number	Authors	Date	Title
SD-11228	Marben-Laird Associates	1987	Historic Resource Survey, A Project of the City of Vista, California
SD-11524	Brian F. Smith and Associates	2007	A Cultural Resources Evaluation for the Vista and Buena Sanitation District 2007 Sewer Master Plan Update

The SCIC records search did not identify any cultural resources within the Project area. The records search did identify 29 cultural resources within the one-mile search buffer of the Project area (Table 2). Of the total 29 resources identified in the one-mile buffer, 19 are prehistoric resources and 10 are historic resources. No historic addresses are located within the Project area, however, 12 historic addresses are located within the one-mile search buffer. The results of the records search and all DPR forms are attached as part of Confidential Appendix A.

Table 2. Previously Recorded Cultural Resources in the One-Mile Record Search Radius

Primary Number	Trinomial	Age	Description	In/ Out Project Area
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Campsite	Out
□□□□□□□□□□	□DI□□□□□□	Prehistoric	Bedrock milling	Out

□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Isolated artifacts (flakes, hammerstones, chopper, scraper)	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Trail	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Lithic and shell scatter with midden	Out
□□□□□□□□□□	□	Historic	Single-family property	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Habitation site; human remains	Out
□□□□□□□□□□	-	Historic	Single-family property	Out
□□□□□□□□□□	-	Historic	Single-family property	Out
□□□□□□□□□□	-	Historic	Single-family property and commercial building	Out
□□□□□□□□□□	-	Historic	Single-family property and commercial building	Out
□□□□□□□□□□	-	Historic	Single-family property	Out
□□□□□□□□□□	-	Historic	Commercial building	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Bedrock milling feature	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Bedrock milling feature	Out
□□□□□□□□□□	□DI□□□□□□□	Prehistoric	Bedrock milling feature	Out
□□□□□□□□□□	-	Prehistoric	Isolate – Lithic flake	Out
□□□□□□□□□□	-	Prehistoric	Isolate – Lithic flake	Out
□□□□□□□□□□	-	Historic	Single-family property	Out
□□□□□□□□□□	-	Historic	Trash scatter	Out
□□□□□□□□□□	-	Historic	Road	Out
□□□□□□□□□□	-	Prehistoric	Isolate – Lithic debitage	Out

3.2 Archival Research

In addition to the SCIC records search, Dudek conducted an on-line review of historic aerial photographs of the Project area and general vicinity, to help determine the possible development and land use of the Project area in the past. Historic aerial photographs of the Project area were available for 1938, 1946, 1947, 1953, 1964, 1967, 1978, 1980-1986, 1988-1991, 1993-2000, 2002, 2003, 2005, 2009, 2010, 2012, 2014, 2016, and 2018 (NETR 2022). The historic aerial from 1938 revealed that the Project area was undeveloped and the surrounding areas were utilized for agriculture. In addition, S. Melrose Drive and Matagual Drive were dirt roads. The 1946 aerial reveals a single-family residence located immediately south of current Las Palmas Drive and east of S. Melrose Drive. Additionally, the 1946 aerial shows a dirt road trending north-south from Matagual Drive through the northern portion of the Project area. The 1947 aerial reveals no changes to the Project area. By 1953, the aerials show a single-family residence located on the most northeastern portion of the project site, as well as a few dirt roads trending east-west through the southern portion of the Project Boundary. The 1964, a portion of Las Palmas Drive is built to the south and the Thriving Life Church is constructed at the northwestern portion of the Project boundary with single-family residential properties located to the south and the east of the Project area. The 1967 aerial imagery reveals the Project area to be disturbed with development and ground disturbing activities in the current

vacant portion of the Project. By 1978, Las Palmas Drive is fully developed. The 1980 aerial imagery shows the Life Thriving Church parking lot paved with asphalt. From 1980 to 1984 the aerial imagery shows no changes in the Project area. By 1985, the aerial imagery reveals grading disturbances immediately west of the Project area for the current Breeze Hill Park and the park is developed by 1986. The aerial imagery of 1988 to 1990 shows no changes in the Project area. The 1991 aerial imagery shows construction of Breeze Hill Elementary and the school is fully developed by 1993. There are no changes seen in the Project area from 1993 to 1997. The 1998 aerial imagery shows one structure built immediately south of the Life Thriving Church in the Project area. The 1998 to 2018 aerial images reveals no changes in the Project area. A review of the historic aerials revealed that there are at least two historic-age structures within the Project area. The structures are considered built environment resources and are addressed in a separate Built Environment Report (Frank and Greeley 2022).

Historic topographic (topo) maps of the Project area were reviewed (earliest map available is 1893). The topo map from 1949 reveals the development of S. Melrose Drive and Matagual Drive. The 1955 topo map shows a structure built south of the current Las Palmas Drive, located outside the Project area. No changes are seen on the 1961 to 1966 topo maps. The 1969 topo map reveals increasing development throughout the Project area. The topo maps from 1970 to 2018 do not show any changes to the Project area.

3.3 Review of Geomorphological Context

According to the U.S. Department of Agriculture Natural Resources Conservation Services (USDA 2022), three soil types are mapped in the Project area, including Placentia sandy loam, 5 to 9 percent slopes, eroded, located within the northwestern portion of the Project area; Bosanko clay, 15 to 30 percent slopes, located within the southeastern and eastern portions of the Project area; and Bosanko clay, 2 to 15 precent, slopes, located in the southwest portion of the Project area. The Placentia soil series generally occur in settings with alluvial fans, deriving from granite and are typically in elevations of 50 to 2,500 feet. The Bosanko clay with 15 to 30 percent slopes soil series generally occur on hillslopes and hills, derive from acid residuum weathered from igneous rock, and are found in areas with elevations ranging from 120 to 1,080 feet. The Bosanko clay with 9 to 15 percent slopes soil series generally occur on hillslopes and hills, derive from residuum weathered from granite, and are found in areas with elevations ranging from 100 to 2,040 feet. Reoccurring alluvial action and flooding serve to support the development and presence of cultural deposits in the area. Since there are alluvial soils present throughout the Project area, there is moderate potential for subsurface cultural resources.

3.4 NAHC and Tribal Correspondence

Dudek requested a Native American Heritage Commission (NAHC) search of the Sacred Lands File (SLF) on July 22, 2022, for the Project area. The SLF consists of a database of known Native American resources. These resources may not be included in the SCIC database. The NAHC replied on September 6, 2022 with positive results (Appendix B). The NAHC additionally provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in this area.

Dudek staff called and left messages with the La Jolla Band of Luiseño Indians and the San Luis Rey Band of Mission Indians on September 9, 2022. Dudek staff called the Pechanga Band of Mission Indians on September 9, 2022 and were provided information about two placenames and four resources within the vicinity of the Project area, and that more information would be provided in a letter. Outreach letters were mailed on September 14,

2022. These letters attempted to solicit additional information relating to Native American resources that may be impacted by the Project. Native American representatives were requested to define a general area where known resources intersect the Project area.

Two letter responses have been received to date. A response was received by the Pechanga Band of Mission Indians on September 9, 2022, stating that a Traditional Cultural Property is located within five miles of the Project area. Additionally, two Ancestral Placenames are located within a mile of the Project area, and due to the proximity of Buena Vista Creek, two historic-era homesteads, and a large cultural-archaeological site, there is a high possibility of recovering sensitive subsurface resources during ground-disturbing activities for the Project. A response was received from the Rincon Band of Luiseño Indians on October 17, 2022, stating that the Project is located within the Territory of the Luiseño people, and within Rincon Band's specific Area of Historic Interest and recommends the preparation of an archaeological/cultural resources study. These letters have been forwarded to the City and included in the report. Any additional responses received will be forwarded to the City and included in the final draft of this report. The NAHC correspondence is included in Appendix B.

In compliance with Assembly Bill 52, the City, as lead agency, is responsible for conducting government to government consultation with tribal entities.

3.5 Intensive Pedestrian Survey

Dudek archaeologist David Faith conducted an intensive level pedestrian survey of the proposed Project area on August 4, 2022. Saving Sacred Sites Native American monitor Jessica Alexander participated in the pedestrian survey. All survey work was conducted employing standard archaeological procedures and techniques consistent with the Secretary of the Interior Standards. Fifteen-meter interval survey transects were conducted in a north-south direction for the Project area. Within the transects, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials.

The Project area has a slight slope facing west and is bound by S. Melrose Drive to the west and Matagual Drive to the north. Approximately 25% of the Project area is developed with asphalt-concrete pavement and the Thriving Life Church building is located in the southwestern corner of the Project area (Figure 3). The remaining 75% of the Project area is mostly vacant with a private residence located in the southeastern corner of the Project area (Figures 4 and 5). Ground visibility was poor (0-25%) in areas where the ground surface was obscured by vegetation; additionally, bioturbation, off-road vehicle tracks, and light modern debris were observed. Vegetation covered approximately 25% of the Project area and consisted of a peppertree, dove weed, hog weed, mustard, mulefat, dead grass, thistle, and shrubs. Soils in the Project area consisted of loosely compacted, light brown dry silt loam. Modern debris (e.g., refuse and destroyed recreational vehicle) were strewn throughout the Project area.

No artifacts or features were identified during this survey. Two historic-age structures were identified within the Project area. The built environment resources are addressed in a separate study for the project (Frank and Greeley 2022).

4 Summary and Management Considerations

4.1 Archaeological Recommendations

Dudek's cultural resources inventory of the Project indicates that there is moderate sensitivity for identifying intact subsurface archaeological deposits during Project implementation. The SCIC records search and the pedestrian survey did not identify any cultural resources within the Project area. However, there are two historic-age structures (e.g. church and single-family property) located in the Project area. Due to the presence of historic-age structures in the Project area, and because alluvial soils, which has potential to contain subsurface cultural materials, are present throughout the Project area, there is moderate potential for subsurface resources. Cultural resources monitoring with a qualified archaeologist and Luiseño Native American monitor is recommended during initial ground-disturbing activities within the Project area to assess the extent of previous disturbances and the potential for buried archaeological resources. Monitoring can be reduced or terminated should no discoveries be made or if documentation is provided which demonstrates that ground-disturbing activities will be occurring in sediments with no potential for cultural resources.

Unanticipated Discovery of Archaeological Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas, but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources has been properly mitigated and with approval by the City.

Unanticipated Discovery of 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 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. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify the person or persons it believes to be the MLD from the deceased Native American. The MLD shall complete inspection within 48 hours of being granted access to the site and make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 619.949.3082 or kmontifolca@dudek.com.

Respectfully Submitted,

Keshia Montifolca, M.A., RPA
Archaeologist

Makayla Murillo, B.A.
Archaeologist

Att.: *Figure 1, Project Location*
Figure 2, Project Area Map
Figure 3. Life Thriving Church located at northwest portion of Project area
Figure 4. Vacant area south of Matagual Drive
Figure 5. Single-family property
National Archaeological Database Information Sheet
Confidential Appendix A, SCIC Records Search Results
Appendix B, Tribal Correspondence
cc: *Angela Pham, Micah Hale, Dudek*

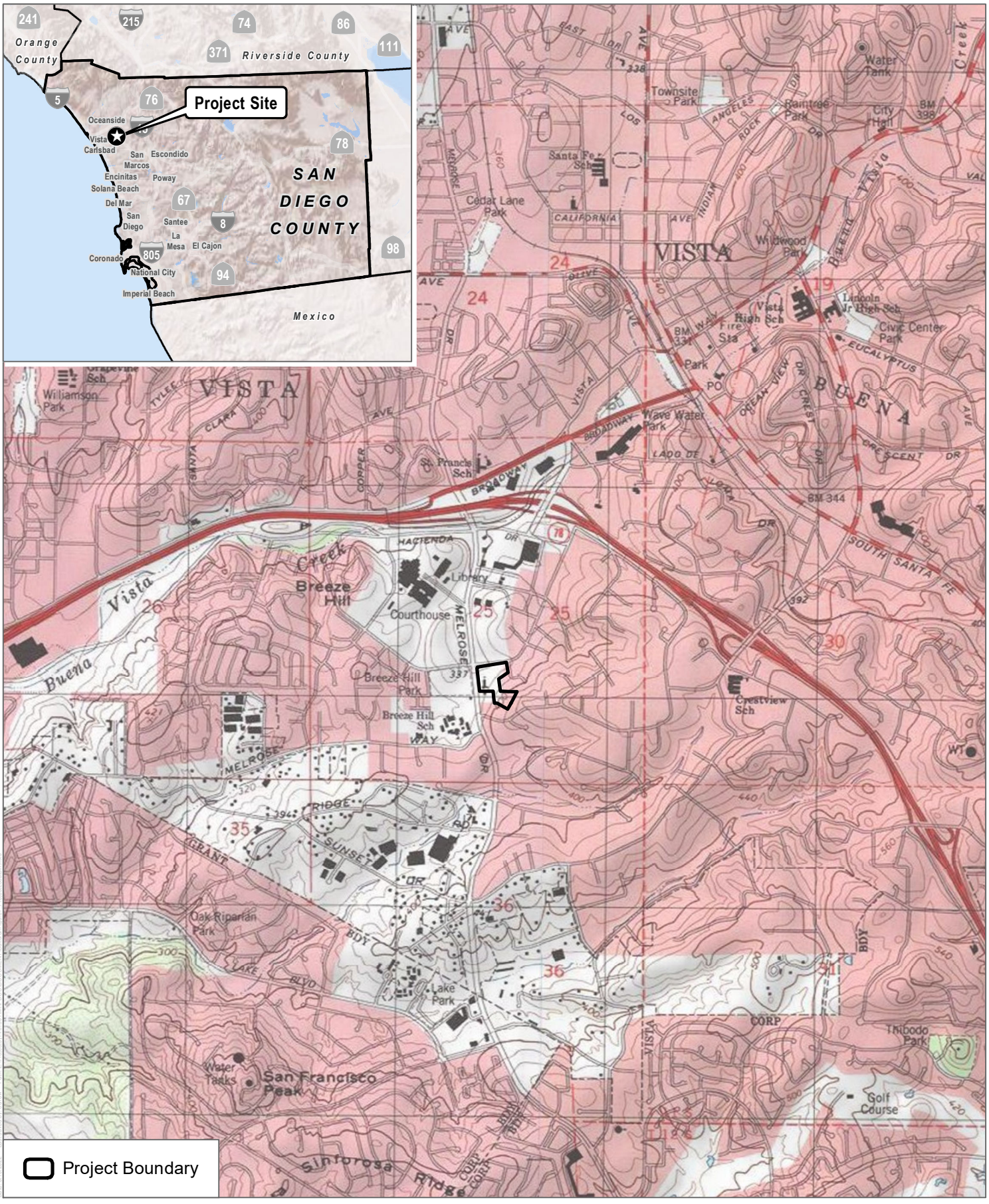
5 References

Frank, Nicole and Caitlin Greeley. 2022. *Historic Resource Technical Report for the Vista Melrose Residential Project, City of Vista, San Diego County, California.* On file at Dudek.

NETR (National Environmental Title Research). 2022. Address search for S. Melrose Drive, Vista, California. Accessed August 15, 2022. http://www.historicaerials.com/.

USDA (U.S. Department of Agriculture). 2002. Web Soil Survey. USDA, Natural Resources Conservation Service, Soil Survey Staff. Accessed August 24, 2022. http://websoilsurvey.nrcs.usda.gov

Vista General Plan 2030. 2012. Accessed May 20, 2022. https://www.cityofvista.com/departments/community-development/permits-forms/vista-general-plan-2030



SOURCE: USGS 7.5-Minute Series San Luis Rey Quadrangle
Township 11S; Range 4W; Section 25

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Vista Melrose

SOURCE: Bing Imagery 2021, Open Street Map

DUDEK

0 50 100 Feet

FIGURE 2

Project Area

Vista Melrose

Figure 3. Life Thriving Church located at northwest portion of Project area, view facing southwest.

Figure 4. Vacant area south of Matagual Drive, view facing north.

Figure 5. Single-family property, view facing south.

National Archaeological Database (NADB) Information

Authors:	Keshia Montifolca M.A., RPA and Makayla Murillo B.A.
Firm:	Dudek
Project Proponent:	Legacy Partners
Report Date:	October 2022
Report Title:	Cultural Resources Inventory Report for the Vista Melrose Residential Project, City of Vista, California
Type of Study:	Cultural Resources Inventory
Resources:	None
USGS Quads:	San Luis Rey, California, Township 11 South, Range 4 West, Section 25
Acreage:	5.28
Permit Numbers:	N/A
Keywords:	Pedestrian Survey, Inventory, City of Vista, Vista Melrose Residential

Confidential Appendix A

SCIC Records Search Results

Appendix B
NAHC Correspondence and Tribal Outreach

From: Keshia Montifolca
Sent: Friday, July 22, 2022 10:19 AM
To: nahc@nahc.ca.gov
Cc: Angela Pham
Subject: Sacred Lands Search - Vista Melrose Residential Project (14613)
Attachments: Sacred Lands File Contact Form - Vista Melrose.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi,

Please see attached for a Sacred Lands File Search request for the Vista Melrose Residential Project
(14613). Let me know if you have any questions or need additional information.

Thank you!

Keshia Montifolca, M.A., RPA
Archaeologist

605 Third Street, Encinitas, CA 92024
O: 619.949.3082 C: 619.372.6255
www.dudek.com

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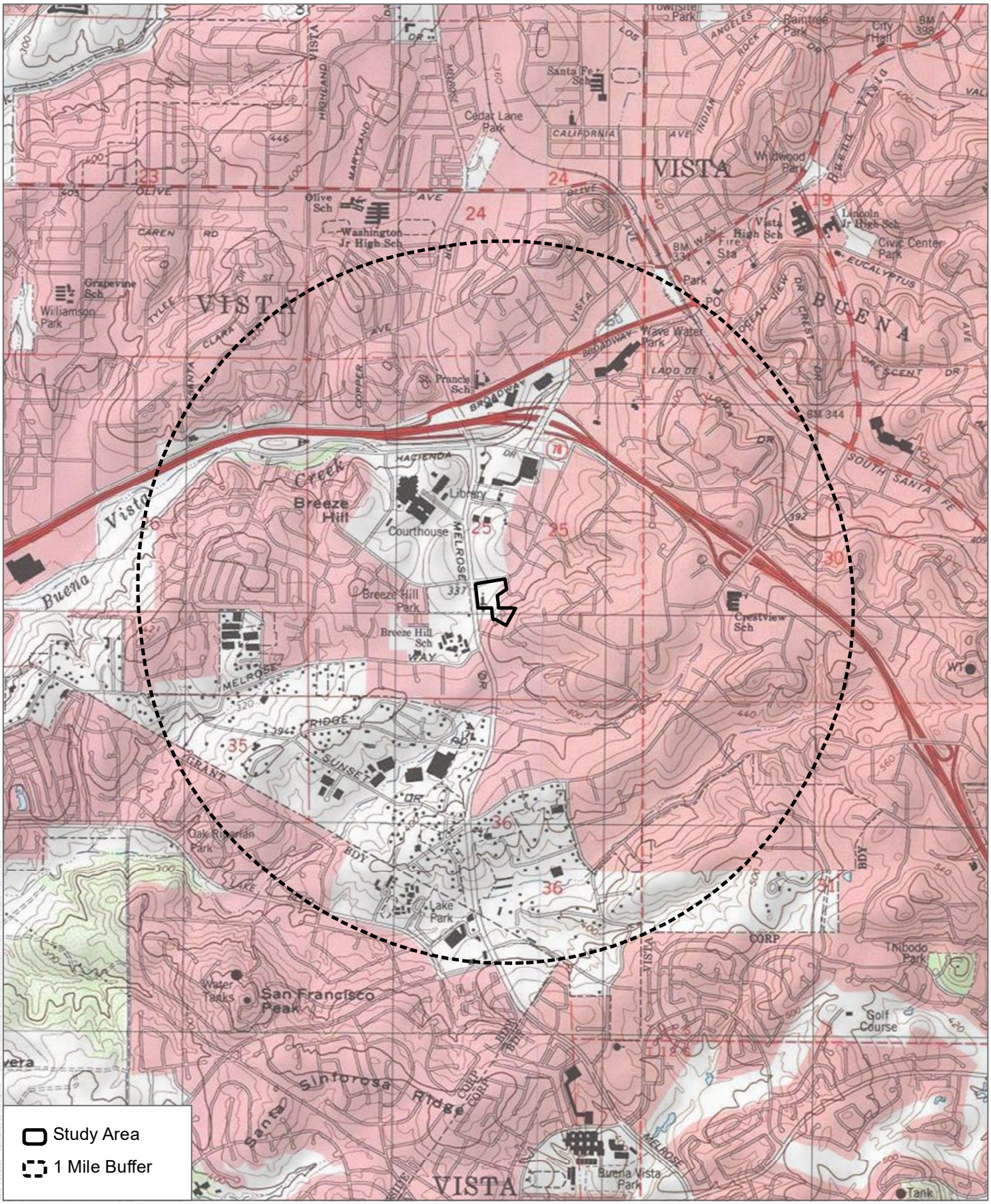
Please consider the environment before printing this email. ?



DUDEK

Records Search

Vista Melrose

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

September 6, 2022

Keshia Montifolca
Dudek

Via Email to: kmontifolca@dudek.com

Re: Vista Melrose Residential (PN 14613) Project, San Diego County

Dear Ms. Montifolca:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were positive. Please contact the La Jolla Band of Luiseno Indians, the Pechanga Band of Indians, and the San Luis Rey Band of Mission Indians on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological 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. Please contact all of those listed; if they cannot supply information, they may 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: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Diego County
9/6/2022

Barona Group of the Capitan Grande
Raymond Welch, Chairperson
1095 Barona Road Diegueno
Lakeside, CA, 92040
Phone: (619) 443 - 6612
Fax: (619) 443-0681
counciloffice@barona-nsn.gov

Campo Band of Diegueno Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1 Diegueno
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Robert Pinto, Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 368 - 4382
Fax: (619) 445-9126
ceo@ebki-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Michael Garcia, Vice Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 933 - 2200
Fax: (619) 445-9126
michaelg@leaningrock.net

Iipay Nation of Santa Ysabel
Virgil Perez, Chairperson
P.O. Box 130 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 765 - 0845
Fax: (760) 765-0320

Iipay Nation of Santa Ysabel
Clint Linton, Director of Cultural Resources
P.O. Box 507 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 803 - 5694
clint@redtailenvironmental.com

Inaja-Cosmit Band of Indians
Rebecca Osuna, Chairperson
2005 S. Escondido Blvd. Diegueno
Escondido, CA, 92025
Phone: (760) 737 - 7628
Fax: (760) 747-8568

Jamul Indian Village
Lisa Cumper, Tribal Historic Preservation Officer
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4855
lcumper@jiv-nsn.gov

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817
epinto@jiv-nsn.gov

Kwaaymii Laguna Band of Mission Indians
Carmen Lucas,
P.O. Box 775 Kwaaymii
Pine Valley, CA, 91962 Diegueno
Phone: (619) 709 - 4207

La Jolla Band of Luiseno Indians
Norma Contreras, Chairperson
22000 Highway 76 Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 3771

La Posta Band of Diegueno Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

This list is current only as of the date of this document. 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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

La Posta Band of Diegueno Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road — Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302 — Diegueno
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

Mesa Grande Band of Diegueno Mission Indians
Michael Linton, Chairperson
P.O Box 270 — Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 782 - 3818
Fax: (760) 782-9092
mesagrandeband@msn.com

Pala Band of Mission Indians
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Rd. — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3515
Fax: (760) 742-3189
sgaughen@palatribe.com

Pauma Band of Luiseno Indians
Temet Aguilar, Chairperson
P.O. Box 369 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422
bennaecalac@aol.com

Pechanga Band of Indians
Paul Macarro, Cultural Resources Coordinator
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6306
Fax: (951) 506-9491
pmacarro@pechanga-nsn.gov

Pechanga Band of Indians
Mark Macarro, Chairperson
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6000
Fax: (951) 695-1778
epreston@pechanga-nsn.gov

Rincon Band of Luiseno Indians
Bo Mazzetti, Chairperson
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 749 - 1051
Fax: (760) 749-5144
bomazzetti@aol.com

Rincon Band of Luiseno Indians
Cheryl Madrigal, Tribal Historic Preservation Officer
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 297 - 2635
crd@rincon-nsn.gov

San Luis Rey Band of Mission Indians
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

San Luis Rey Band of Mission Indians
San Luis Rey, Tribal Council
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

This list is current only as of the date of this document. 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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

Native American Heritage Commission
Native American Contact List
San Diego County
9/6/2022

San Pasqual Band of Diegueno Mission Indians
John Flores, Environmental Coordinator
P. O. Box 365 — Diegueno
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

San Pasqual Band of Diegueno Mission Indians
Allen Lawson, Chairperson
P.O. Box 365 — Diegueno
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Sycuan Band of the Kumeyaay Nation
Cody Martinez, Chairperson
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation
Kristie Orosco, Kumeyaay Resource Specialist
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 6917

Viejas Band of Kumeyaay Indians
John Christman, Chairperson
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337

Viejas Band of Kumeyaay Indians
Ernest Pingleton, Tribal Historic Officer, Resource Management
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 659 - 2314
epingleton@viejas-nsn.gov

This list is current only as of the date of this document. 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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Vista Melrose Residential (PN 14613) Project, San Diego County.

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Cultural Department ,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Cultural Department,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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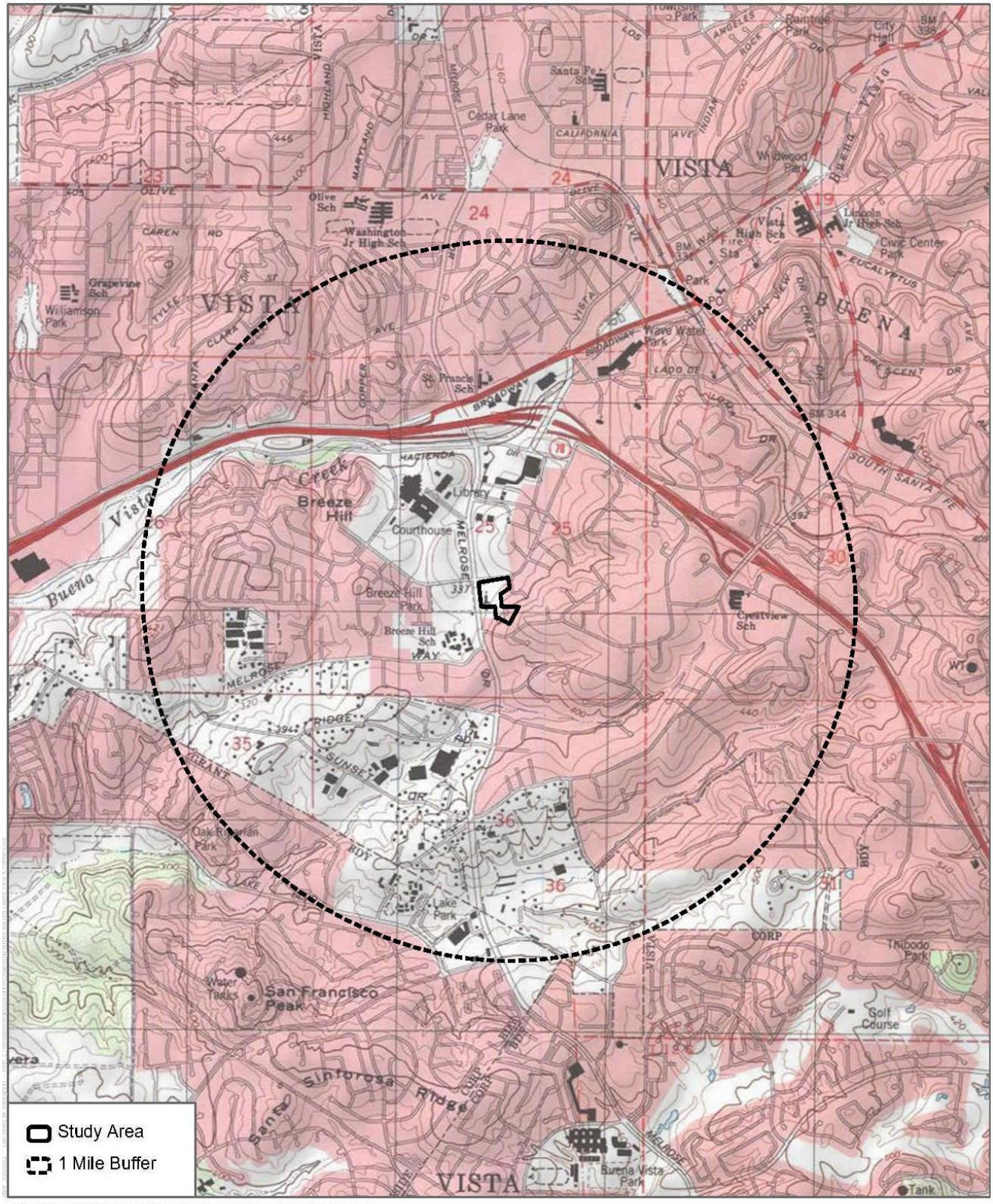
Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*



SOURCE: USGS 7.5-Minute Series San Marcos & San Luis Rey Quadrangles
Township 11S; Range 4W, 3W; Sections 19, 23, 24, 25, 26, 30, 31, 35, 36

DUDEK

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Records Search
Vista Melrose

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Tribal Council,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Tribal Council,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Temet Aguilar, Chairperson
Pauma & Yuima Reservation
P.O. Box 369
Pauma Valley, CA 92061

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Aguilar,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Sheilia Alvarez,
Barona Group of the Capitan Grande
1095 Barona Road
Lakeside, CA 92040

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Alvarez,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Ms. Norma Contreras, Chairperson
La Jolla Band of Mission Indians
22000 Highway 76
Pauma Valley, CA 92061

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Contreras,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Lisa Cumper, THPO
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Cumper,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Michael Garcia, Vice Chairperson
Ewiiaapaayp Tribe
4054 Willows Road
Alpine, CA 91901

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Garcia,

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T 800.450.1818 F 760.632.0164

Ms. Shasta Gaughen, Tribal Historic Preservation Officer
Pala Band of Mission Indians
35008 Pala Temecula Rd.
Pala, CA 92059

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Gaughen,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Attachments: *Figure 1. Regional project map.*

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Ralph Goff, Chairperson
Campo Band of Diegueno Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Goff,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Clint Linton, Director of Cultural Resources
Ipay Nation of Santa Ysabel
P.O. Box 507
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Linton,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Michael Linton, Chairperson
Mesa Grande Band of Dieguneo Mission Indians
P.O. Box 270
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Linton,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Attachments: *Figure 1. Regional project map.*

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Carmen Lucas,
Kwaaymii Laguna Band of Mission Indians
P.O. Box 775
Pine Valley, CA 91962

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Lucas,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Mark Macarro, Chairperson
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Macarro,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Paul Macarro, Cultural Resources Manager
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Cheryl Madrigal, Tribal Historic Preservation Officer
Rincon Band of Mission Indians
One Governement Center Lane
Valley Center, CA 92082

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Madrigal,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

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Mr. Bo Mazzetti, Chairperson
Rincon Band of Luiseño Indians
1 Government Center Lane
Valley Center, CA 92082

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Mazzetti,

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Ms. Javaughn Miller, Tribal Administrator
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Miller,

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Ms. Rebecca Osuna, Chairperson
Inaja-Cosmit Band of Indians
2005 S. Escondido Blvd.
Escondido, CA 92025

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Osuna,

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Ms. Gwendolyn Parada, Chairperson
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Parada,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Virgil Perez, Chairperson
Iipay Nation of Santa Ysabel
P.O. Box 130
Santa Ysabel, CA 92070

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Perez,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Erica Pinto, Chairperson
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Pinto,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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Attachments: *Figure 1. Regional project map.*

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Robert Pinto, Chairperson
Ewiaapaayp Tribe
4054 Willow Rd.
Alpine, CA 91901

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Pinto,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Mr. Edwin (Thorpe) Romero, Chairperson
Barona Group of the Capitan Grande
1095 Barona Road
Lakeside, CA 92040

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Mr. Romero,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

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Respectfully,

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Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

Ms. Angela Elliott Santos, Chairperson
Manzanita Band of Kumeyaay Nation
P.O. Box 1302
Boulevard, CA 91905

Subject: Information Request for the Vista Melrose Residential Project, City of Vista, California

Dear Ms. Santos,

The City of Vista (City) is proposing construction of a 34-single family residential development, a private road, dog park, a tot lot, and a rock garden in the community of Encinitas, California (Figure 1). The proposed project comprises approximately 5.28 acres and is located at 560 S. Melrose Drive and 622 S. Melrose Drive in the City of Vista. This project falls on Section 25, Township 11 South, Range 4 West of the San Luis Rey, California U.S. Geological Survey (USGS) 7.5-minute quadrangle.

The Native American Heritage Commission conducted a Sacred Lands file search. Native American cultural resources were identified within a one-mile distance of the proposed project area. I am writing as part of the consultation process in order to find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed project.

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Regional project map.*

PECHANGA CULTURAL RESOURCES

Pechanga Band of Indians

Post Office. Box 2183 • Temecula, CA 92593
Telephone (951) 770-6300 • Fax (951) 506-9491

Chairperson:
Neal Ibanez

Vice Chairperson:
Bridgett Barcello

Committee Members:
Darlene Miranda
Richard B. Scearce, III
Robert Villalobos
Shevon Torres
Juan Rodriguez

Direcctor:
Gary DuBois

Coordinator:
Paul Macarro

Cultural Analyst:
Tuba Ebru Ozdil

September 08, 2022

VIA E-Mail and USPS
Makayla Murillo, B.A., RPA
Archaeologist
DUDEK
605 Third Street,
Encinitas, CA. 92024

RE: Request for Information for the Vista Melrose Residential Project, City of Vista, San Diego County, CA

Dear Ms. Murillo,

The Pechanga Band of Indians ("the Tribe") appreciates your request for information regarding the above referenced Project. After reviewing the provided maps and our internal documents, we have determined that the Project-area is not within our Reservation land's, although it is located in Our Ancestral Territory. At this time, we are interested in participating in this Project based upon our 'Ayélkwish/Traditional Knowledge of the area. This Project is situated 4.87 miles due east to our Traditional Cultural Property. There are two Ancestral Placenames at .60 and .78 of-a-mile (respectively) away from the APE. This Project is .37 of-a-mile from a large cultural-archaeological site. Buena Vista Creek is situated .46 of-a-mile due north of the Project's boundary which is very concerning, because of our Culture's-practice for the Ancestors being buried near confluences-of or near long-term waterways. A 1900 Historic Plat Map shows this Project-parcel being .34 of-a-mile due east of "J. Boyle's House" and .55 of-a-mile due west of "P. Boyle's House." Typically, a good place to live for the Ancestors became a good place to live for historic-era homesteaders. Historic aerials from 1938-forward depict this property as being undeveloped until the early 1960's, when a church was erected on the western-portion of the parcel. From 1938 to the present-day the majority of the field, on eastern-portion has remained undeveloped. The Tribe anticipates that intact native soils lay beneath the east-side of this parcel's plow-zone. Considering this information provided above, the nearby presence or Ancestral human remains, and because of extensive previously recorded sites in this Project's vicinity the Tribe therefore, is interested in participating in this Project. The Pechanga Tribe believes that the possibility of recovering sensitive subsurface resources during ground-disturbing activities for this Project is extremely high.

The Tribe is dedicated to providing comprehensive cultural information to you and your firm for inclusion in the archaeological study as well as to the Lead Agency for CEQA review. At this time, the Tribe requests the following so we may continue the consultation process and to provide adequate and appropriate recommendations for the Project:

1) Notification once the Project begins the entitlement process, if it has not already;
2) Copies of all applicable archaeological reports, site records, proposed grading plans and environmental documents (EA/IS/MND/EIR, etc);
3) Government-to-government consultation with the Lead Agency; and
4) The Tribe believes that monitoring by a San Diego County qualified archaeologist and a professional Pechanga Tribal Monitor may be required during earthmoving activities. Therefore, the Tribe reserves its right to make additional comments and recommendations once the environmental documents have been received and fully reviewed. Further, in the event that subsurface cultural resources are identified, the Tribe requests consultation with the Project proponent and Lead Agency regarding the treatment and disposition of all artifacts.

As a Sovereign governmental entity, the Tribe is entitled to appropriate and adequate government-to-government consultation regarding the proposed Project. We would like you and your client to know that the Tribe does not consider initial inquiry letters from project consultants to constitute appropriate government-to-government consultation, but rather tools to obtain further information about the Project area. Therefore, the Tribe reserves its rights to participate in the formal environmental review process, including government-to-government consultation with the Lead Agency, and requests to be included in all correspondence regarding this Project.

Please note that we are interested in participating in surveys within Luiseño Ancestral territory. Prior to conducting any surveys, please contact the Cultural Department to schedule specifics. If you have any additional questions or comments, please contact me at pmacarro@pechanga-nsn.gov or 951-770-6306.

Sincerely,

Paul E. Macarro

Paul E. Macarro
Cultural Coordinator
Pechanga Reservation

Rincon Band of Luiseño Indians

CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov

October 17, 2022

Sent via email: mmurillo@dudek.com
DUDEK
Makayla Murillo
605 Third Street
Encinitas, CA 92024

Re: Vista Melrose Residential Project, City of Vista, California

Dear Ms. Murillo,

This letter is written on behalf of the Rincon Band of Luiseño Indians ("Rincon Band" or "Tribe"), a federally recognized Indian Tribe and sovereign government. We have received your notification regarding the above referenced project and we thank you for the opportunity to provide information pertaining to cultural resources. The identified location is within the Territory of the Luiseño people, and is also within Rincon Band's specific Area of Historic Interest (AHI).

Based on the information provided to us, the Rincon Band recommends conducting an archaeological/cultural resources study, to include an archeological record search and complete intensive survey of the property. Additionally, we ask that a professional Tribal monitor from the Rincon Band to accompany the archaeologist during the survey.

The Rincon Band further requests to consult directly with the lead agency regarding project impacts to cultural resources. While it is not the responsibility of consultants to facilitate State-mandated consultation, the request is included in this letter, so the lead agency is aware of the Tribe's concerns about the project.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749-1092 or via electronic mail at cmadrigal@rincon-nsn.gov. We look forward to working together to protect and preserve our cultural assets.

Sincerely,

Cheryl Madrigal
Tribal Historic Preservation Officer
Cultural Resources Manager

Bo Mazzetti, Chairman | Tishmall Turner, Vice Chair | Laurie E. Gonzalez, Council Member | John Constantino, Council Member | Joseph Linton, Council Member

Appendix E

Geotechnical and Infiltration Evaluation

GEOTECHNICAL AND INFILTRATION EVALUATION
PROPOSED 34-LOT RESIDENTIAL DEVELOPMENT
APNS 166-280-60, -61 AND -18
SOUTH MELROSE DRIVE AND MATAGUAL DRIVE
VISTA, SAN DIEGO COUNTY, CALIFORNIA

PREPARED FOR

TTLC MANAGEMENT, INC. AN ARIZONA CORPORATION
2942 CENTURY PLACE, SUITE 121
COSTA MESA, CALIFORNIA 92626

PREPARED BY

GEOTEK, INC.
1548 NORTH MAPLE STREET
CORONA, CALIFORNIA 92878

PROJECT NO. 3706-SD **AUGUST 3, 2021**

GEOTEK

GeoTek, Inc.
1548 North Maple Street, Corona, California 92878
(951) 710-1160 Office (951) 710-1167 Fax www.geotekusa.com

August 3, 2021
Project No. 3706-SD

TTLC Management, Inc. an Arizona Corporation
2942 Century Place, Suite 121
Costa Mesa, California 92626

Attention: Mr. Michael Torres

Subject: Geotechnical and Infiltration Evaluation
Proposed 34-Lot Residential Development
APNs 166-280-60, -61 AND -18
South Melrose Drive and Matagual Drive
Vista, San Diego County, California

Dear Mr. Torres:

GeoTek, Inc. (GeoTek) is pleased to provide the results of this geotechnical and infiltration evaluation for the proposed project located in Vista, San Diego County, California. This report presents the results of GeoTek's evaluation, discussion of findings, and provides geotechnical recommendations for foundation design and construction.

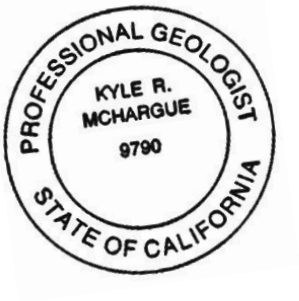
Based upon review and evaluation, site development appears feasible from a geotechnical viewpoint provided that the recommendations included in this report are incorporated into the design and construction phases of the project.

The opportunity to be of service is sincerely appreciated. If you should have any questions, please do not hesitate to contact GeoTek.

Respectfully
submitted,
GeoTek, Inc.

Bruce A. Hick
GE 2244, Exp. 12/31/22
Geotechnical Engineer

Edward H. LaMont
CEG 1892, Exp. 07/31/22
Principal Geologist



Kyle R. McHargue
PG 9790, Exp. 02/28/22
Project Geologist

Distribution: (1) Addressee via email (one PDF file)

G:\Projects\Vista Projects\3706-SD\Geotechnical and Infiltration Investigation\3706-CR Geotechnical and Infiltration Evaluation Vista.doc

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ENCLOSURES

Figure 1 – Site Location Map
Figure 2 – Boring Location Map

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Appendix B – Results of Laboratory Testing
Appendix C – Percolation Data & Porchet Calculations
Appendix D – General Earthwork Grading Guidelines

1. PURPOSE AND SCOPE OF SERVICES

The purpose of this study was to evaluate the geotechnical engineering and geologic conditions at the project site, as outlined in GeoTek's proposal P-0601421-SD, dated June 18, 2021. Services provided for this study included the following:

- Research and review of available geologic data and general information pertinent to the site,
- Site exploration consisting of the excavation, logging, and sampling of eight (8) exploratory test borings extending to depths ranging from 5.5 to 20.5 feet below grade,
- Excavation of two (2) additional percolation borings to a depth of about five (5) feet below grade and performing an infiltration test in each boring,
- Laboratory testing of soil samples collected during the field investigation,
- Review and evaluation of site seismicity, and
- Preparation of this geotechnical report which presents GeoTek's findings, conclusions, and recommendations for this site.

2. SITE DESCRIPTION AND PROPOSED DEVELOPMENT

2.1 SITE DESCRIPTION

The approximate 5.28-acre irregular-shaped project site is located adjacent to the southeast corner of South Melrose Drive and Matagual Drive, in the City of Vista, San Diego County, California (See Figure 1). Access to the site is available from South Melrose Street and Matagual Street, both paved improved streets, located adjacent to the western and northern boundaries of the site, respectively. Access to the site is available from poorly maintained asphalt concrete driveways off South Melrose Drive and Matagual Drive leading to single family residences in the southeast and northeast corners of the site. The site is bordered to the south by existing commercial devlopments and existing single-family residences and to the east by single-family residences.

Topographically, the site slopes moderately downward to the north/northwest. Elevation of the southwestern portion of the the site is approximately 415 feet with approximately 80 feet of elevation differential across the site.

An existing church and adjacent asphalt concrete paved parking lot was present in the western portion of the site at the time of the field exploration (see Figure 2). An existing single-family residence and associated improvements were present in the southeast corner of the site at the time of the field exploration. The northeast, eastern and majority of the southeastern portions of the site consisted of vacant land. This portion of the site was vegetated with a sparse covering of weeds, grasses and brush.

2.2 PROJECT DESCRIPTION

Based upon correspondence, GeoTek understands the property is to be developed with about 34 single-family residential lots and associated infrastructure improvements. Stormwater disposal is to be by means of a stormwater detention basin in the north-northeast portion of the subject site.

The proposed residential structures are anticipated to be of wood-frame construction, one- to two-stories in height, and incorporate conventional shallow foundations and concrete slab-on-grade floors. It is our understanding that sewage disposal will be by a public sewer. For the purposes of this report, it is assumed maximum column and wall loads will be about 50 kips and 2.5 kips per foot, respectively. Specific site development plans were not provided as of the date of this report. Once actual loads are known that information should be provided to GeoTek to determine if modifications to the recommendations presented in this report are warranted.

If site development differs from the assumptions made herein, the recommendations included in this report should be subject to further review and evaluation. Site development plans should be reviewed by GeoTek when they become available.

3. FIELD EXPLORATION AND LABORATORY TESTING

3.1 FIELD EXPLORATION

The field exploration for this report was conducted on July 8, 2021 and consisted of excavating eight (8) geotechnical exploratory test borings with a hollow-stem drill rig to depths ranging from about 5.5 to 20.5 feet below grade. All borings were terminated due to encountering refusal on the underlying bedrock. The approximate locations of the GeoTek excavations are shown on the Boring Location Map (Figure 2). A geologist from GeoTek logged the excavations and collected earth material samples for use in subsequent laboratory testing. The logs of the exploratory borings are included in Appendix A.

Bulk and relatively undisturbed soil samples were recovered at various intervals in the geotechnical borings with a California sampler. The California sampler is a 3-inch outside diameter, 2.5-inch inside diameter, split barrel sampler lined with brass rings. The sampler was 18 inches long. The sampler conformed to the requirements of ASTM D 3550. A 140-pound automatic trip hammer was utilized, dropping 30 inches for each blow. The relatively undisturbed samples, together with bulk samples of representative soil types, were returned to the laboratory for testing and evaluation. The California sampler test data are presented on the boring logs in Appendix A.

Percolation Testing

In addition to the geotechnical exploratory borings, two percolation borings (I-1 and I-2) were excavated in the area of the proposed storm water management basin to depths of about 5 feet. Infiltration/percolation testing was conducted in these borings in general accordance with the requirements of the City of Vista.

The percolation tests consisted of drilling an eight-inch diameter test hole to the desired depth and installing approximately two inches of gravel in the bottom of the hole. A three-inch diameter perforated PVC pipe, wrapped in a filter sock, was placed in the excavations and the annular space was filled with gravel to prevent caving within the boring. Water was then placed in the borings to presoak the holes and percolation testing was performed the following the pre-soak period. Following presoaking, the percolation tests were performed which consisted of adding water to each test hole and measuring the water drop over a 30-minute period. The water drop was recorded for twelve test intervals. Water was added to the test holes after each test interval. The field percolation rates were then converted to an infiltration rate using the Porchet Method.

The results of the conversions indicate an infiltration rate of 0.05 inch per hour, indicating very low infiltration rates. Copies of the percolation data sheets and the Porchet infiltration rate conversion calculations are presented in Appendix C. No factors of safety were applied to the rates provided. Over the lifetime of the infiltration areas, the infiltration rates may be affected by sediment build up and biological activities, as well as local variations in near surface soil conditions. A suitable factor of safety should be applied to the field rate in designing the infiltration system.

It should be noted that the infiltration rates provided above were performed in relatively undisturbed on-site soils. Infiltration rates will vary and are mostly dependent on the underlying consistency of the site soils and relative density. Infiltration rates may be impacted by weight of equipment travelling over the soils, placement of engineered fill and other various factors. GeoTek assumes no responsibility or liability for the ultimate design or performance of the storm water facility.

3.2 LABORATORY TESTING

Laboratory testing was performed on selected relatively undisturbed ring and bulk samples collected during the field exploration. The purpose of the laboratory testing was to confirm the field classification of the materials encountered and to evaluate their physical properties for use in the engineering design and analysis. Results of the laboratory testing program along with a brief description and relevant information regarding testing procedures are included on the exploratory borings logs included in Appendix A.

4. GEOLOGIC AND SOILS CONDITIONS

4.1 REGIONAL SETTING

The subject property is located in the Peninsular Ranges geomorphic province. The Peninsular Ranges province is one of the largest geomorphic units in western North America. Basically, it extends roughly 975 miles from the north and northeasterly adjacent the Transverse Ranges geomorphic province to the peninsula of Baja California. This province varies in width from about 30 to 100 miles. It is bounded on the west by the Pacific Ocean, on the south by the Gulf of California and on the east by the Colorado Desert Province.

The Peninsular Ranges are essentially a series of northwest-southeast oriented fault blocks. Several major fault zones are found in this province. The Elsinore Fault zone and the San Jacinto Fault zones trend northwest-southeast and are found in the near the middle of the province. The San Andreas Fault zone borders the northeasterly margin of the province. The closest known active fault is the Newport-Inglewood-Rose Canyon Fault Zone located approximately 10 miles west of the site. No faults are shown in the immediate site vicinity on the map reviewed for the area.

4.2 GENERAL SOIL CONDITIONS

A brief description of the earth materials encountered is presented in the following section. Based on the site reconnaissance, the exploratory excavations and review of published geologic maps, the area investigated is locally underlain by undocumented fill that is locally underlain by alluvial fan deposits over granitic bedrock.

4.2.1 Fill

Fill was encountered in exploratory borings B-1 and B-8 to depths ranging from approximately 2.5 to 9.5 feet below existing grade. The fill encountered in the test borings generally consisted of silty sand and clayey sand (SM and SC soil types based upon the Unified Soil Classification System). These fills appear to have been placed as part of the development of the existing church facility in the northwestern portion of the site. Greater depths of fill may be present within unexplored areas of the site.

4.2.2 Alluvial Fan Deposits

Alluvial fan deposits were encountered in the borings beneath the fill soils and surficially in most of the other borings conducted on the site. These soils extended to depths ranging from approximately 2.5 to 13 feet below existing grade. The depth of the alluvial fan deposits appears thickest in the northern portion of the site and thinnest in the southeastern portion of the site. As encountered in the borings, the alluvial fan deposits consisted predominately of sandy and silty clays with layers of silty sands and clayey sands (CL, SM and SC soil types based upon the Unified Soil Classification System).

Based on the laboratory test results, the near surface soils have a "medium" expansion potential (ASTM D 4829). Based on the laboratory test results, the near surface soils have a soluble sulfate content of less than 0.1 percent (ASTM D 4327). The test results are provided in Appendix B.

4.2.3 Granitic Bedrock

Granitic bedrock (tonalite) was encountered at depth in all of the geotechnical borings. The bedrock consists of a gray-white, coarse-grained granitoid. This material can be found to be mafic-rich in some areas making it darker in color. The bedrock consists of predominately quartz and plagioclase with biotite and amphibole. Where encountered, the bedrock was found to be highly weathered at the soil/bedrock contact but becomes less weathered with depth. All geotechnical borings were terminated due to encountering hard bedrock. As encountered in the borings, the bedrock excavated as silty sand (SM soil type).

4.3 SURFACE WATER AND GROUNDWATER

4.3.1 Surface Water

If encountered during earthwork operations, surface water on this site is the result of precipitation or possibly some minor surface run-off from the surrounding areas. Overall site area drainage varies due to the site topography and existing improvements. Provisions for surface drainage will need to be accounted for by the project civil engineer.

4.3.2 Groundwater

Groundwater was not encountered within any of the test borings drilled at the site to the maximum depth drilled of 20.5 below the existing ground surface. Based on a review of information contained in the State Water Resources Control Board database (http://www.water.ca.gov/waterdatalibrary/) and the GeoTracker website, groundwater is estimated to be about 30 feet below ground surface. Based on the results of the field exploration, review of site area geomorphology and geology, groundwater is not anticipated to adversely affect the proposed improvements.

4.4 FAULTING AND SEISMICITY

4.4.1 Faulting

The geologic structure of the entire southern California area is dominated mainly by northwest-trending faults associated with the San Andreas system. The site is in a seismically active region. No active or potentially active fault is known to exist at this site nor is the site situated within an *"Alquist-Priolo"* Earthquake Fault Zone or a Special Studies Zone (Bryant and Hart, 2007). No faults transecting the site were identified on the readily available geologic maps reviewed. The nearest known active fault is the Newport Inglewood-Rose Canyon fault located about 10 miles to the south and southwest of the site.

4.4.2 Seismic Design Parameters

The site is located at approximately 33.1871 degrees West Latitude and -117.2525 degrees North Longitude. Site spectral accelerations (S_a and S_1) for 0.2 and 1.0 second periods for a Class "C" site were determined from the SEAOC/OSHPD web interface that utilizes the USGS web services and retrieves the seismic design data and presents that information in a report format. These values are presented in the following table:

SITE SEISMIC PARAMETERS	
Mapped 0.2 sec Period Spectral Acceleration, S_S	0.916g
Mapped 1.0 sec Period Spectral Acceleration, S_1	0.338g
Site Coefficient for Site Class "C", F_a	1.2
Site Coefficient for Site Class "C", F_V	1.5
Maximum Considered Earthquake Spectral Response Acceleration for 0.2 Second, S_{MS}	1.099g
Maximum Considered Earthquake Spectral Response Acceleration for 1.0 Second, S_{M1}	0.507g
5% Damped Design Spectral Response Acceleration Parameter at 0.2 Second, S_{DS}	0.733g
5% Damped Design Spectral Response Acceleration Parameter at 1 second, S_{D1}	0.338g
Peak Ground Acceleration (PGA_M)	0.476g
Seismic Design Category	D

Final selection of the appropriate seismic design coefficients should be made by the project structural engineer based upon the local practices and ordinances, expected building response and desired level of conservatism.

4.5 LIQUEFACTION

Liquefaction describes a phenomenon in which cyclic stresses, produced by earthquake-induced ground motion, create excess pore pressures in relatively cohesionless and some low-plastic silt and clay soils. These soils may thereby acquire a high degree of mobility, which can lead to lateral movement, sliding, settlement of loose sediments, sand boils and other damaging deformations. This phenomenon occurs only below the water table, but, after liquefaction occurs, the liquefied soil/water matrix can propagate upward into overlying non-saturated soil as excess pore water dissipates.

The factors known to influence liquefaction potential include soil type and grain size, relative density, plasticity, groundwater level, confining pressures, and both intensity and duration of ground shaking. In general, materials that are susceptible to liquefaction are loose, saturated

granular soils having low fines content under low confining pressures and some low plastic silts and clays.

Due to the lack of shallow groundwater at the project sites and presence of relatively shallow hard bedrock, the liquefaction potential for this project is considered low. Due to the dense to very dense nature of the subsurface soils and presence of relatively shallow bedrock, seismic induced ("dry sand") settlements are estimated to be minimal.

4.6 OTHER SEISMIC HAZARDS

Evidence of landslides or slope instabilities at the subject site was not observed during our investigation or geologically mapped in the general vicinity (Kennedy, M.P., Tan, S.S., Bovard, K.R., Alvarez, R.M., Watson, M.J., and Gutierrez, C.I., 2007).

The potential for secondary seismic hazards such as a seiche and tsunami is considered negligible due to site elevation and distance from an open body of water.

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 GENERAL

Development of the site appears feasible from a geotechnical engineering viewpoint. The following recommendations should be incorporated into the design and construction phases of development.

5.2 EARTHWORK CONSIDERATIONS

5.2.1 General

Earthwork and grading should be performed in accordance with the applicable grading ordinances of the County of San Diego, City of Vista and the 2019 California Building Code (CBC), and recommendations contained in this report. The Grading Guidelines included in Appendix D outline general procedures and do not anticipate all site-specific situations. In the event of conflict, the recommendations presented in the text of this report should supersede those contained in Appendix D.

5.2.2 Site Clearing

Initial site preparation should commence with removal of existing structures, underground utilities, slabs, pavements, debris, deleterious materials and vegetation within the limits of the planned improvements. As previously discussed, exiting structures and underground utilities are present in the southeastern and west-central, and possible other, portions of the site. These materials should be properly disposed of off-site. Alternatively, some asphalt and concrete may be broken down and incorporated into site fill if allowed by the local governing agency. Voids resulting from removing any materials should be replaced with engineered fill materials with expansion characteristics similar to the onsite materials.

5.2.3 Site Preparation

Due to the non-uniform nature and thickness of the near-surface undocumented fill and alluvial fan deposits, and anticipated disturbance of the upper site soils to the demolition of existing structures, it is recommended that the soils be removed beneath the planned building footprint of the proposed structure to a depth of at least 4 feet below existing grade, or two (2) feet beneath the base of the proposed foundations, whichever is greater. Removal bottoms should be relatively uniform in soil type which is not visibly porous and having an in-place density of at least 85 percent of the soil's maximum dry density as determined by ASTM D 1557 test procedures. A representative of this firm should observe and approve the bottom of all remedial excavations. The lateral extent of this recommended over-excavation should extend at least 5 feet beyond the building or foundation limits.

Following site clearing operations, over-excavation and lowering of site grades, where necessary, it is recommended that the exposed subgrade soils beneath all surface improvements be proof rolled with a heavy rubber-tired piece of construction equipment approved by and in the presence of the geotechnical engineering representative. The proof rolling equipment should possess a minimum weight of 15 tons and proof rolling should include at least 4 passes, two in each perpendicular direction. All soil that ruts or excessively deflects during proof rolling should be removed as recommended by the GeoTek representative. Following proof rolling and removal of any unsuitable bearing soil, the exposed subgrade should be scarified to a depth of about 12 inches, be moisture conditioned to slightly above the soil's optimum moisture content and then be compacted to at least 90 percent of the soil's maximum dry density as determined by ASTM D-1557 test procedures.

5.2.4 Engineered Fill

The on-site soils are generally considered suitable for reuse as engineered fill provided they are free from vegetation, debris, oversized materials (~6 inches) and other deleterious material. All areas should be brought to final subgrade elevations with fill materials that are placed and compacted in general accordance with minimum project standards. Engineered fill should be

placed in 6-to-8-inch loose lifts, moisture conditioned to slightly above the optimum moisture content and compacted to a minimum relative compaction of 90 percent as determined by ASTM D-1557 test procedures.

If wet soils are encountered during remedial grading, methods for drying soils such as stockpiling or mixing with dry soils may be required to bring the soils to the required moisture content for placement as engineered fill. Placement of engineered fill should be observed and tested on a full-time basis by a GeoTek representative during grading activities.

5.2.5 Transition Lot Condition

Building pads graded with a cut/fill transition should be undercut to reduce the potential for differential settlement. The cut portion of the cut/fill transition should be undercut to a depth of at least 3 feet or one (1) foot below the deepest proposed footing, whichever is deeper, and be backfilled with a properly compacted engineered fill. The bottom of the undercut should be sloped at a minimum of 1 percent toward the adjacent street/parking lot area.

5.2.6 Oversized Rock Disposal

Oversized cobbles, bounders and rock fragments may be encountered during rough grading and utility trench operations, especially if granitic bedrock is encountered. On-site disposal of oversized materials is possible, provided the oversized materials are placed as recommended on Plate 4 within Appendix D. Alternatively, over-sized materials can be exported from the site.

5.2.7 Excavation Characteristics

Excavations in the on-site alluvial fan deposits and fill should be readily accomplished with heavy-duty earthmoving or excavating equipment in good operating condition. All excavations should be formed in accordance with current Cal-OSHA requirements.

Some excavation difficulties should be anticipated for any deep excavations into the on-site bedrock. "Overbreak" of deep utility trench excavations into the bedrock should be anticipated. Dependent upon the depth of excavations, specialized equipment and/or techniques may be necessary.

5.2.8 Trench Excavations and Backfill

Temporary trench excavations within the on-site materials should be stable at a 1:1 inclination for short durations during construction and where cuts do not exceed 15 feet in height. Deeper temporary excavations should be reviewed by GeoTek prior to their planned excavation to determine if supplemental recommendations or analysis are warranted. It is anticipated that temporary cuts to a maximum height of 4 feet can be excavated vertically.

Trench excavations should conform to Cal-OSHA regulations. The contractor should have a competent person, per OSHA requirements, on site during construction to observe conditions and to make the appropriate recommendations.

Utility trench backfill should be compacted to at least 90 percent relative compaction (as determined by ASTM D-1557 test procedures). Under-slab trenches should also be compacted to project specifications. Where applicable, based on jurisdictional requirements, the top 12 inches of backfill below subgrade for road pavements should be compacted to at least 95 percent relative compaction. On-site materials may not be suitable for use as bedding material but should be suitable as backfill provided particles larger than 6 inches are removed.

Compaction should be achieved with a mechanical compaction device. Ponding or jetting of trench backfill is not recommended. If backfill soils have dried out, they should be properly moisture conditioned prior to placement in trenches.

5.2.9 Shrinkage and Bulking

For planning purposes, a shrinkage loss of about 5 to 15 percent is anticipated for excavations within the undocumented fill and alluvial fan deposits at the site. A bulking factor of 10 percent should be considered for excavations extending into the underlying granitic bedrock. Several factors will impact earthwork balancing on the site, including shrinkage, trench spoil from utilities and footing excavations, as well as the accuracy of topography. Shrinkage and bulking are primarily dependent upon the degree of compactive effort achieved during construction, depth of fill and underlying site conditions.

A subsidence loss of up to about 0.1 foot is estimated for the site.

Site balance areas should be available in order to adjust project grades, depending on actual field conditions at the conclusion of earthwork construction.

5.2.10 Grading Plan Review

Upon completion of the site grading plans, it is recommended that those plans be provided to GeoTek for review. Based on that review, some modifications to the recommendations provided in this report may be necessary.

5.3 DESIGN RECOMMENDATIONS

5.3.1 Foundation Design Criteria

Presented below are post-tensioned foundation design parameters for the proposed structures at the site. These parameters are in general conformance with *Design of Post-Tensioned Slabs-on-Ground*, Third Edition *with 2008 Supplement* (PTI, 2008). These recommendations are minimal recommendations and are not intended to supersede the design by the project structural engineer.

DESIGN PARAMTERS FOR POST-TENSIONED SLABS	
Foundation Design Parameter	Design Value
	"Medium" Expansion Potential (LL≤85; PI≤43; Passing #200 Sieve ≈ 84%; Clay fines ≈ 56%)
Edge Moisture Variation Distance, e_m -Edge Lift (swelling) -Center Lift (shrinkage)	 2.9 ft 5.3 ft
Soil Differential Movement, y_m -Edge Lift (swelling) -Center Lift (shrinkage)	 ≈1.49 in ≈-0.62 in
Exterior Perimeter Beam Embedment	One- and Two-Story – 18 inches*
Presaturation of Subgrade Soil (Percent of Optimum)	Minimum 120% to a depth of 18 inches

*Required depth of perimeter beam/stiffening rib per structural calculations may govern.
The following assumptions were used to generate e_m and y_m values: Thornthwaite Moisture Index = -20; constant suction value = 3.9pF; post-equilibrium case assumed with wet (swelling) cycle going from 3.9pF to 3.0pF and drying (shrinking) cycle going from 3.9pF to 4.5pF.

Post-tensioned slabs should be designed in accordance with the *2019 CBC* and PTI design methodology.

The bottom of the perimeter edge beam/deepened footing should be designed to resist tension forces using either cable or conventional reinforcement, per the structural engineer.

Expansion Index, soil classification, and soluble sulfate evaluation of the soils should be performed during construction to evaluate the as-graded conditions. Final recommendations should be based upon the as-graded soils conditions.

Foundation design criteria for a conventional foundation system, in general conformance with the 2019 CBC, are presented below. The site soils are classified as having a "medium" (51-90)

expansion potential in accordance with ASTM D 4829. These are minimal recommendations and are not intended to supersede the design by the project structural engineer.

The conventional foundation elements for the proposed structures should bear entirely in engineered fill soils. Foundations should be designed in accordance with the 2019 CBC requirements.

A summary of GeoTek's preliminary foundation design recommendations is presented in the table below:

Design Parameter	"Medium" Expansion Potential (51≤EI≤90)
Foundation Depth or Minimum Perimeter Beam Depth (inches below lowest adjacent grade)	18-One & Two Story
Minimum Foundation Width (Inches)*	15
Minimum Slab Thickness (actual)	5 inches (actual)
Minimum Slab Reinforcing	No. 4 reinforcing bars at 18-inch centers each way placed in middle of slab.
Minimum Footing Reinforcement	Four No. 4 Reinforcing Bars, two top and two bottom
Presaturation of Subgrade Soil (Percent of Optimum)	Minimum 120% of the optimum moisture content to a depth of at least 18 inches prior to placing concrete

*Code minimums per Table 1809.7 of the 2019 CBC.

It should be noted that the criteria provided are based on soil support characteristics only. The structural engineer should design the slab and beam reinforcement based on actual loading conditions.

The following criteria for design of foundations are preliminary and should be re-evaluated based on the results additional laboratory testing of samples obtained at/near finish pad grade.

5.3.1.1 An allowable bearing capacity of 1,500 pounds per square foot (psf) may be used for design of continuous and perimeter footings 18 inches deep and 15 inches wide, and pad footings 24 inches square and 18 inches deep. This allowable soil bearing capacity may be increased by 250 psf for each additional foot of footing depth and 250 psf for each additional foot of footing width to a maximum value of 2,500 psf. An increase of one-third may be applied when considering short-term live loads (e.g., seismic and wind loads).

5.3.1.2 Structural foundations should be designed in accordance with the 2019 CBC, and to withstand a total static settlement of 1 inch and maximum differential static settlement of one-half of the total settlement over a horizontal distance of 40 feet.

5.3.1.3 The passive earth pressure may be computed as an equivalent fluid having a density of 250 psf per foot of depth, to a maximum earth pressure of 2,500 psf for footings founded on engineered fill or competent native soil. A coefficient of friction between soil and concrete of 0.35 may be used with dead load forces. When combining passive pressure and frictional resistance, the passive pressure component should be reduced by one-third. The upper one foot of soil should be ignored in the passive pressure calculations unless the surface is covered with pavements.

5.3.1.4 A grade beam, a minimum of 15 inches wide and 18 inches deep, should be utilized across large entrances. The base of the grade beam should be at the same elevation as the bottom of the adjoining footings.

5.3.1.5 A moisture and vapor retarding system should be placed below slabs-on-grade where moisture migration through the slab is undesirable. Guidelines for these are provided in the 2019 California Green Building Standards Code (CALGreen) Section 4.505.2, the 2019 CBC Section 1907.1 and ACI 360R-10. The vapor retarder design and construction should also meet the requirements of ASTM E 1643. A portion of the vapor retarder design should be the implementation of a moisture vapor retardant membrane.

It should be realized that the effectiveness of the vapor retarding membrane can be adversely impacted as a result of construction related punctures (e.g., stake penetrations, tears, punctures from walking on the vapor retarder placed atop the underlying aggregate layer, etc.). These occurrences should be limited as much as possible during construction. Thicker membranes are generally more resistant to accidental puncture than thinner ones. Products specifically designed for use as moisture/vapor retarders may also be more puncture resistant. Although the CBC specifies a 6-mil vapor retarder membrane, it is GeoTek's opinion that a minimum 10 mil thick membrane with joints properly overlapped and sealed should be considered, unless otherwise specified by the slab design professional. The membrane should consist of Stego wrap or the equivalent.

Moisture and vapor retarding systems are intended to provide a certain level of resistance to vapor and moisture transmission through the concrete, but do not eliminate it. The acceptable level of moisture transmission through the slab is to a

large extent based on the type of flooring used and environmental conditions. Ultimately, the vapor retarding system should be comprised of suitable elements to limited migration of water and reduce transmission of water vapor through the slab to acceptable levels. The selected elements should have suitable properties (i.e., thickness, composition, strength, and permeability) to achieve the desired performance level.

Moisture retarders can reduce, but not eliminate, moisture vapor rise from the underlying soils up through the slab. Moisture retarder systems should be designed and constructed in accordance with applicable American Concrete Institute, Portland Cement Association, Post-Tensioning Concrete Institute, ASTM and California Building Code requirements and guidelines.

GeoTek recommends that a qualified person, such as the flooring contractor, structural engineer, architect, and/or other experts specializing in moisture control within the building be consulted to evaluate the general and specific moisture and vapor transmission paths and associated potential impact on the proposed construction. That person (or persons) should provide recommendations relative to the slab moisture and vapor retarder systems and for migration of potential adverse impact of moisture vapor transmission on various components of the structures, as deemed appropriate.

In addition, the recommendations in this report and GeoTek's services in general are not intended to address mold prevention; since GeoTek, along with geotechnical consultants in general, do not practice in the area of mold prevention. If specific recommendations addressing potential mold issues are desired, then a professional mold prevention consultant should be contacted.

5.3.1.6 It is recommended that control joints be placed in two directions spaced approximately 24 to 36 times the thickness of the slab in inches. These joints are a widely accepted means to control cracks and should be reviewed by the project structural engineer.

5.3.2 Miscellaneous Foundation Recommendations

5.3.2.1 To reduce moisture penetration beneath the slab on grade areas, utility trench excavations should be backfilled with engineered fill, lean concrete or concrete slurry where they intercept the perimeter footing or thickened slab edge.

5.3.2.2 Soils from the footing excavations should not be placed in the slab-on-grade areas unless properly compacted and tested. The excavations should be free of loose/sloughed materials and be neatly trimmed at the time of concrete placement.

5.3.3 Foundation Setbacks

Minimum setbacks for all foundations should comply with the 2019 CBC, San Diego County or City of Vista requirements, whichever is more stringent. Improvements not conforming to these setbacks are subject to the increased likelihood of excessive lateral movements and/or differential settlements. If large enough, these movements can compromise the integrity of the improvements. The top outside edge of all footings should be set back a minimum of H/3 (where H is the slope height) from the face of any descending slope. The setback should be at least five feet and need not exceed 40 feet.

5.3.4 Soil Corrosivity

The soil resistivity at this site was tested in the laboratory on a sample collected during the field investigation. The results of the testing indicate that the on-site soils are considered "extremely corrosive" (804 to 1,407 ohm-cm) (Roberge, 2000) to buried ferrous metal in accordance with current standards used by corrosion engineers. It is recommended that a corrosion engineer be consulted to provide recommendations for the protection of buried ferrous metal at this site.

5.3.5 Soil Sulfate Content

The sulfate content was determined in the laboratory on a sample collected during the field investigation. The results indicate that the water-soluble sulfate result is less than 0.1 percent by weight, which is considered "negligible" as per Table 4.2.1 of ACI 318. Based on the test results and Table 4.3.1 of ACI 318, no special recommendations for concrete are required for this project due to soil sulfate exposure.

5.4 RETAINING AND GARDEN WALL DESIGN AND CONSTRUCTION

5.4.1.1 General Design Criteria

Recommendations presented in this report apply to typical masonry or concrete vertical retaining walls to a maximum height of up to six (6) feet. Additional review and recommendations should be requested for higher walls. These are typical design criteria and are not intended to supersede the design by the structural engineer.

Retaining wall foundations should be embedded a minimum of 18 inches into engineered fill. Retaining wall foundations should be designed in accordance with Section 5.3 of this report. Structural needs may govern and should be evaluated by the project structural engineer.

All earth retention structure plans, as applicable, should be reviewed by this office prior to finalization.

Earthwork considerations, site clearing and remedial earthwork for all earth retention structures should meet the requirements of this report, unless specifically provided otherwise, or more stringent requirements or recommendations are made by the designer. The backfill material placement for all earth retention structures should meet the requirement of Section 5.2.4 in this report.

In general, cantilever earth retention structures, which are designed to yield at least 0.001H, where H is equal to the height of the earth retention structure, may be designed using the "active" condition. Rigid earth retention structures (including but not limited to rigid walls, and walls braced at top, such as typical basement walls) should be designed using the "at-rest" condition.

In addition to the design lateral forces due to retained earth, surcharges due to improvements, such as an adjacent building or traffic loading, should be considered in the design of the earth retention structures. Loads applied within a 1:1 (horizontal : vertical) projection from the surcharge on the stem of the earth retention structure should be considered in the design.

Final selection of the appropriate design parameters should be made by the designer of the earth retention structures.

5.4.1.2 Cantilevered Walls

The recommendations presented below are for cantilevered retaining walls up to six (6) feet high. Active earth pressure may be used for retaining wall design, provided the top of the wall is not restrained from minor deflections. An equivalent fluid pressure approach may be used to compute the horizontal pressure against the wall. Appropriate fluid unit weights are given below for specific slope gradients of the retained material. These do not include other superimposed loading conditions such as traffic, structures, seismic events, or adverse geologic conditions.

ACTIVE EARTH PRESSURES	
Surface Slope of Retained Materials (horizontal : vertical)	Equivalent Fluid Pressure (pcf) Select Backfill* and Native Soils
Level	38
2:1	60

*The design pressures assume the backfill material has an expansion index less than or equal to 20. Backfill zone includes area between back of the wall to a plane (1:1 horizontal : vertical) up from bottom of the wall foundation (on the backside of the wall) to the ground surface.

For walls with a retained height greater than 6 feet, an incremental seismic pressure should be included into the wall design. Where needed, it is recommended that an equivalent fluid pressure of 25 pcf be included into the wall design to account for seismic loading conditions. This pressure may be applied as a triangular distribution.

5.4.1.3 Retaining Wall Backfill and Drainage

The wall backfill should also include a minimum one (1) foot wide section of ¾- to 1-inch clean crushed rock (or an approved equivalent). The rock should be placed immediately adjacent to the back of the wall and extend up from a back drain to within approximately 24 inches of the finish grade. The upper 24 inches should consist of compacted on-site materials. The rock should be separated from the earth with filter fabric. The presence of other materials might necessitate revision to the parameters provided and modification of the wall designs. The backfill materials should be placed in lifts no greater than eight (8) inches in thickness and compacted to a minimum of 90% relative compaction as determined by ASTM D 1557 test procedures. Proper surface drainage needs to be provided and maintained.

As an alternative to the drain, rock and fabric, a pre-manufactured wall drainage product (example: Mira Drain 6000 or approved equivalent) may be used behind the retaining wall. The wall drainage product should extend from the base of the wall to within two (2) feet of the ground surface. The subdrain should be placed in direct contact with the wall drainage product.

Retaining walls should be provided with an adequate pipe and gravel back drain system to help prevent buildup of hydrostatic pressures. Backdrains should consist of a four (4)-inch diameter perforated collector pipe (Schedule 40, SDR 35, or approved equivalent) embedded in a minimum of one (1) cubic foot per linear foot of ¾□to 1-inch clean crushed rock or an approved equivalent, wrapped in filter fabric (Mirafi 140N or an approved equivalent). The

drain system should be connected to a suitable outlet. Waterproofing of site walls should be performed where moisture migration through the walls is undesirable.

5.4.1.4 Restrained Retaining Walls

Retaining walls that will be restrained at the top that support level backfill or that have reentrant or male corners, should be designed for an equivalent at-rest fluid pressure of 60 pcf, plus any applicable surcharge loading. For areas of male or reentrant corners, the restrained wall design should extend a minimum distance of twice the height of the wall laterally from the corner, or a distance otherwise determined by the project structural engineer.

5.4.1.5 Other Design Considerations

- Wall design should consider the additional surcharge loads from superjacent slopes and/or footings, where appropriate.
- No backfill should be placed against concrete until minimum design strengths are evident by compression tests of cylinders.
- The retaining wall footing excavations, backcuts, and backfill materials should be approved by the project geotechnical engineer or their authorized representative.
- Positive separations should be provided in garden walls at horizontal distances not exceeding 20 feet.

5.5 PRELIMINARY PAVEMENT DESIGN RECOMMENDATIONS

Although planned final grades beneath the street improvements within the site are not yet known, the following preliminary pavement design recommendations are based on Traffic Indexes of 5.0, 5.5 and 6.0 as designated by the City of Vista, Department of Public Works Engineering Traffic Index (TI) Values sheet. Preliminary pavement thickness design is based on the CalTrans Highway Design Manual (2018). An R-value of 20 has been assumed for the preliminary design of the project pavement sections. Once the traffic loading information becomes more defined, revision to the pavement design recommendations may be warranted. It is recommended that the final pavement design be based on R-value testing of the as-graded subgrade soils within the pavement areas.

Based on the assumptions noted above the following preliminary pavement recommendations are provided for the site:

PRELIMINARY MINIMUM PAVEMENT SECTION		
Traffic Index	Thickness of Asphalt Concrete (inches)	Thickness of Aggregate Base (inches)
5.0	3.0	8
5.5	3.0	10
6.0	4.0	9

Traffic Indices (TIs) used in the pavement design should provide a pavement life of approximately 20 years with a normal amount of flexible pavement maintenance. Irrigation adjacent to pavements, without a deep curb or other cutoff to separate landscaping from the paving may result in premature pavement failure. Traffic parameters used for design were selected based upon engineering judgment and not upon information furnished to us such as an equivalent wheel load analysis or a traffic study.

All base material and the upper 12 inches of subgrade should be compacted to at least 95 percent of the material's maximum dry density as determined by ASTM D 1557 test procedures. All materials and methods of construction should conform to the requirements of the City of Vista.

5.6 CONCRETE CONSTRUCTION

5.6.1 General

Concrete construction should follow the 2019 CBC and ACI guidelines regarding design, mix placement and curing of the concrete. If desired, GeoTek could provide quality control testing of the concrete during construction.

5.6.2 Concrete Mix Design

As discussed in Section 5.3.5, no special recommendations for concrete are required for this project due to soil sulfate exposure. Additional testing should be performed during grading so that specific recommendations can be formulated based on the as-graded conditions.

5.6.3 Concrete Flatwork

Exterior concrete flatwork is often one of the most visible aspects of site development. They are typically given the least level of quality control, being considered "non-structural" components. Cracking of these features is common due to various factors. While cracking usually does not affect the structural performance of the concrete, it is unsightly. It is recommended that the same standards of care be applied to these features as to the structure itself.

Flatwork should consist of a minimum four-inch (actual) thick concrete and the use of temperature and shrinkage control reinforcement is suggested. The project structural engineer should provide final design recommendations.

5.6.4 Concrete Performance

Concrete cracks should be expected. These cracks can vary from sizes that are hairline to more than 1/8 inch in width. Most cracks in concrete while unsightly do not significantly impact long-term performance. While it is possible to take measures (proper concrete mix, placement, curing, control joints, etc.) to reduce the extent and size of cracks that occur, some cracking will occur despite the best efforts to minimize it. Concrete undergoes chemical processes that are dependent on a wide range of variables, which are difficult, at best, to control. Concrete, while seemingly a stable material, is subject to internal expansion and contraction due to external changes over time.

One of the simplest means to control cracking is to provide weakened control joints for cracking to occur along. These do not prevent cracks from developing; they simply provide a relief point for the stresses that develop. These joints are a widely accepted means to control cracks but are not always effective. Control joints are more effective the more closely spaced they are. GeoTek suggests that control joints be placed in two orthogonal directions and located a distance apart approximately equal to 24 to 36 times the slab thickness.

5.7 POST CONSTRUCTION CONSIDERATIONS

5.7.1 Landscape Maintenance and Planting

Water has been shown to weaken the inherent strength of soil, and slope stability is significantly reduced by overly wet conditions. Positive surface drainage away from graded slopes should be maintained and only the amount of irrigation necessary to sustain plant life should be provided for planted slopes. Controlling surface drainage and runoff and maintaining a suitable vegetation cover can minimize erosion. Plants selected for landscaping should be lightweight, deep-rooted types that require little water and are capable of surviving the prevailing climate.

Overwatering should be avoided. Care should be taken when adding soil amendments to avoid excessive watering. Leaching as a method of soil preparation prior to planting is not recommended. An abatement program to control ground-burrowing rodents should be implemented and maintained. This is critical as burrowing rodents can decreased the long-term performance of slopes.

It is common for planting to be placed adjacent to structures in planter or lawn areas. This will result in the introduction of water into the ground adjacent to the foundations. This type of landscaping should be avoided. Planters within 30 feet of the buildings should be above ground and underlain by a concrete slab. Waterproofing of the foundation and/or subdrains may be warranted and advisable. We could discuss these issues, if desired, when plans are made available.

5.7.2 Drainage

The need to maintain proper surface drainage and subsurface systems cannot be overly emphasized. Positive site drainage should be maintained at all times. Drainage should not flow uncontrolled down any descending slope. Water should be directed away from foundations and not allowed to pond or seep into the ground adjacent to the footings and floor-slabs. Pad drainage should be directed toward approved areas and not be blocked by other improvements.

Roof gutters should be installed that will direct the collected water at least 20 feet from the buildings.

It is the owner's responsibility to maintain and clean drainage devices on or contiguous to their lot. In order to be effective, maintenance should be conducted on a regular and routine schedule and necessary corrections made prior to each rainy season.

5.8 PLAN REVIEW AND CONSTRUCTION OBSERVATIONS

It is recommended that site grading, specifications, and foundation plans be reviewed by this office prior to construction to check for conformance with the recommendations of this report. It is also recommended that GeoTek representatives be present during site grading and foundation construction to observe and document for proper implementation of the geotechnical recommendations. The owner/developer should have GeoTek perform at least the following duties:

- Observe site clearing and grubbing operations for proper removal of all unsuitable materials.
- Observe and test bottom of removals prior to fill placement.
- Evaluate the suitability of on-site and import materials for fill placement and collect soil samples for laboratory testing where necessary.
- Observe the fill for uniformity during placement, including utility trench excavation backfill. Also, test the fill for density, relative compaction and moisture content.

- Observe and probe foundation excavations to confirm suitability of bearing materials with respect to density.

If requested, a construction observation and compaction report can be provided by GeoTek which can comply with the requirements of the governmental agencies having jurisdiction over the project. It is recommended that these agencies be notified prior to commencement of construction so that necessary grading permits can be obtained.

6. INTENT

It is the intent of this report to aid in the design and construction of the proposed development. Implementation of the advice presented in this report is intended to reduce risk associated with construction projects. The professional opinions and geotechnical advice contained in this report are not intended to imply total performance of the project or guarantee that unusual or variable conditions will not be discovered during or after construction.

The scope of GeoTek's evaluation is limited to the area explored that is shown on the Boring Location Map (Figure 2). This evaluation does not and should in no way be construed to encompass any areas beyond the specific area of the proposed construction as indicated to GeoTek by the client. Further, no evaluation of any existing site improvements is included. The scope is based on GeoTek's understanding of the project and the client's needs, GeoTek's proposal (Proposal No. P-0601421-CR) dated June 18, 2021 and geotechnical engineering standards normally used on similar projects in this region.

7. LIMITATIONS

GeoTek's findings are based on site conditions observed and the stated sources. Thus, GeoTek's comments are professional opinions that are limited to the extent of the available data.

GeoTek has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering at this time and location and science professions currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report.

Since GeoTek's recommendations are based on the site conditions observed and encountered at the stated times and laboratory testing. Thus, GeoTek's conclusions and recommendations are professional opinions that are limited to the extent of the available data. Observations during construction are important to allow for any change in recommendations found to be warranted. These opinions have been derived in accordance with current standards of practice and no warranty of any kind is expressed or implied. Standards of care/practice are subject to change with time.

8. SELECTED REFERENCES

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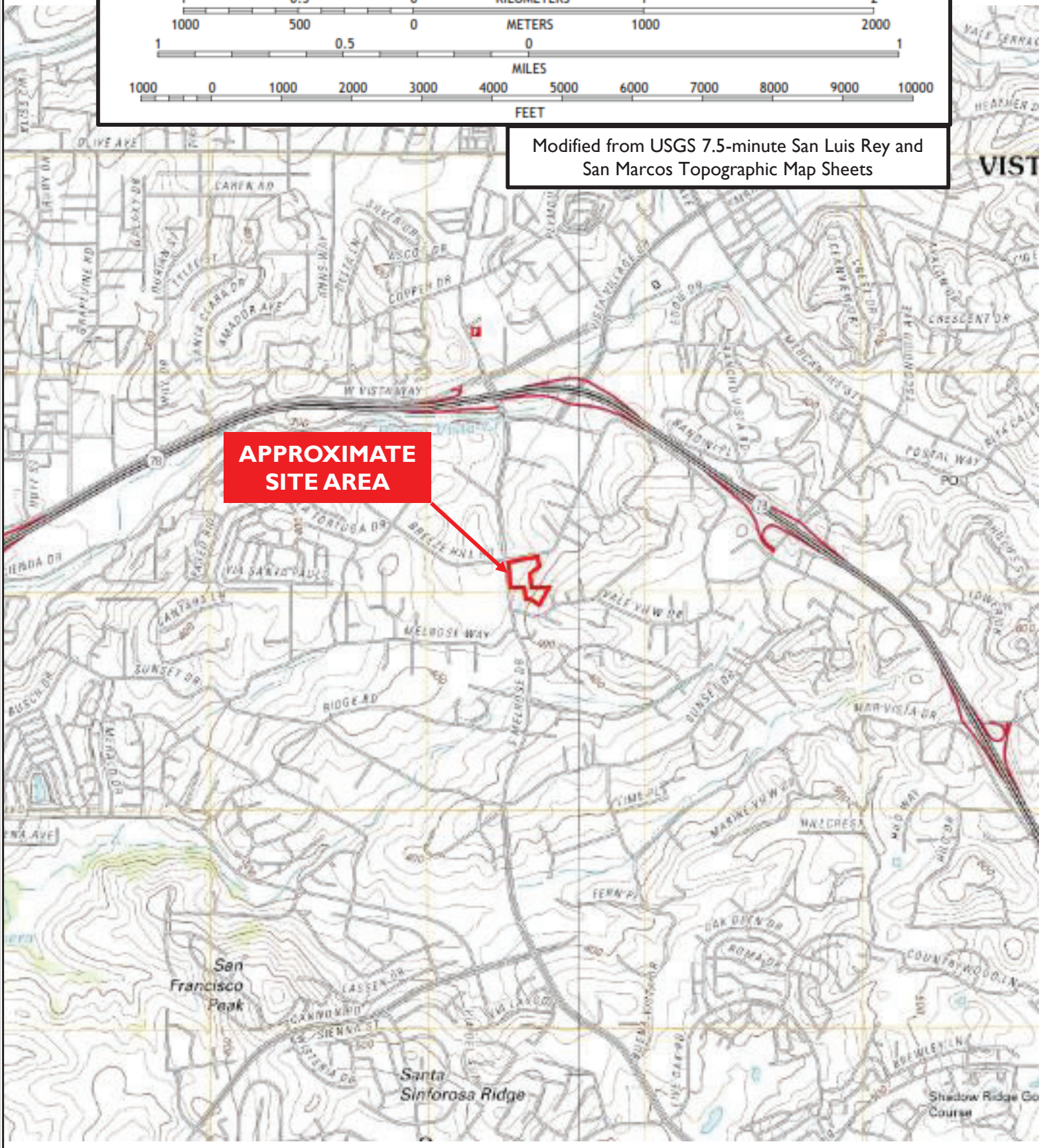


TTLC Management, Inc. an Arizona Corporation
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

GeoTek Project No. 3706-SD

NORTH

Figure 1

Site Location Map

GEOTEK

TTLC Management, Inc. an Arizona Corporation
APNs 166-280-60, -61, and -18
Vista, San Diego County, California

GeoTek Project No. 3706-SD

GEOTEK

Figure 2

Boring Location Map

APPENDIX A

LOG OF EXPLORATORY BORINGS

Proposed 34-Lot Residential Development
South Melrose Drive and Matagual Drive
Vista, San Diego County, California
Project No. 3706-SD

GEOTEK

A - FIELD TESTING AND SAMPLING PROCEDURES

The Modified Split-Barrel Sampler (Ring)

The Ring sampler is driven into the ground at various depths in accordance with ASTM D 3550 test procedures. The sampler, with an external diameter of 3.0 inches, is lined with 1-inch long, thin brass rings with inside diameters of approximately 2.4 inches. The sampler is typically driven into the ground 12 or 18 inches with a 140-pound hammer free falling from a height of 30 inches. Blow counts are recorded for every 6 inches of penetration as indicated on the log of boring. The samples are removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

Bulk Samples (Large)

These samples are normally large bags of earth materials over 20 pounds in weight collected from the field by means of hand digging or exploratory cuttings.

Bulk Samples (Small)

These are plastic bag samples which are normally airtight and contain less than 5 pounds in weight of earth materials collected from the field by means of hand digging or exploratory cuttings. These samples are primarily used for determining natural moisture content and classification indices.

B - BORING LOG LEGEND

The following abbreviations and symbols often appear in the classification and description of soil and rock on the log of borings:

SOILS

USCS	Unified Soil Classification System
f-c	Fine to coarse
f-m	Fine to medium

GEOLOGIC

B: Attitudes	Bedding: strike/dip
J: Attitudes	Joint: strike/dip
C: Contact line	
……..	Dashed line denotes USCS material change
———	Solid Line denotes unit / formational change
———	Thick solid line denotes end of boring

(Additional denotations and symbols are provided on the boring logs)

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-1 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					3" Asphalt, 2.5" Base			
					Undocumented Fill:			
	■	7 9 14	R1	SM	Silty f SAND, dark brown, moist, medium dense	9.2	121.5	
					Alluvial Fan:			
	■	12 16 20	R2	CL	Sandy CLAY, dark brown, moist, stiff	15.2	116.1	
5	■	14 23 29	R3		red-brown			
	■	15 22 27	R4		same as above	15.2	114.5	
10	■	12 25 36	R5	SC/CL	Clayey SAND to Sandy CLAY, brown, moist, dense to hard	16.5	120.1	
					Granitic Bedrock Excavates as:			
15	■	50-2.5"	R6		Silty f-c SAND, olive-gray, slightly moist, very dense	1.7	118.5	
20		50-0.5"			No Recovery			
					REFUSAL DUE TO BEDROCK AT 20 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
25								
30								

LEGEND

Sample type: ■ ---Ring ■ ---SPT ▨ ---Small Bulk ▩ ---Large Bulk □ ---No Recovery ▽ ---Water Table

Lab testing: AL = Atterberg Limits; SR = Sulfate/Resisitivity Test; EI = Expansion Index; SH = Shear Test; SA = Sieve Analysis; HC= Consolidation; RV = R-Value Test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-2 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			Maximum Density = 125.0 pcf Optimum Moisture = 10.0%
		9 14 20	R1	SM	Silty f SAND, clayey, brown, slightly moist, dense	12.4	123.5	SH HC
5		15 32 50-5"	R2		fine- to coarse-grained, dark brown, very dense	15.2	115.5	
		18 32 40	R3		same as above	14.9	118.4	
10		19 27 42	R4		same as above			
					Granitic Bedrock Excavates as:			
15		50-5"	R5		Silty f-c SAND, olive-brown, slightly moist, very dense	9.9	114.7	
					REFUSAL DUE TO BEDROCK AT 15.5 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-3 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			
	Ring	13 15 21	R1	CL	Sandy CLAY, dark brown, slightly moist, stiff	12.4	121.7	HC
	Ring	18 27 31	R2		same as above			
5	Ring	14 25 44	R3		very stiff to hard	15.8	118.3	
					Granitic Bedrock Excavates as:			
	Ring	50-6"	R4		silty f-c SAND, olive-brown, slightly moist, very dense	12.8	113.3	
10	Ring	50-5"	R5		same as above	5.0	118.5	
					REFUSAL DUE TO BEDROCK AT 10.5 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-4 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			
		17	R1	SM	Silty f SAND, clayey, dark brown, moist, desne			
		23				11.5	123.1	
		23						
		19	R2	CL	Sandy CLAY, brown, moist hard			
		29						
		42						
5		23	R3					
		50-5"			**Granitic Bedrock Excavates as:** silty f-c SAND, red-brown, slightly moist, very dense	18.1	116.9	
		34	R4		same as above			
		50-4"				16.6	114.5	
					REFUSAL DUE TO BEDROCK AT 8.5 FEET			
					No groundwater encountered			
10					Boring backfilled with soil cuttings			
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-5 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			
		11 12 14	R1	CL	Sandy CLAY, dark brown, moist, stiff			EI = 85 SR
5		50-6"	R2	SM	Silty f-c SAND, brown, moist, very dense	13.8	117.1	
					Granitic Bedrock Excavates as:			
		50-4"	R3		Silty f-c SAND, red-brown, moist, very dense	7.7		
					REFUSAL DUE TO BEDROCK AT 8.5 FEET			
10					No groundwater encountered Boring backfilled with soil cuttings			
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	**BORING NO.: B-6** / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			
	Ring	11 15 19	R1	SM	Silty f SAND, clayey, dark brown, moist, dense	9.9	126	
5	Ring	18 50-3.5"	R2		same as above			
					Granitic Bedrock Excavates as:			
	Ring	50-4"	R3		Silty f-c SAND, olive-brown, moist, very dense	6.2		
					REFUSAL DUE TO BEDROCK AT 8.5 FEET			
10					No groundwater encountered Boring backfilled with soil cuttings			
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

BORING NO.: B-7

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Alluvial Fan:			
		16 21 28	R1	CL	Sandy CLAY, dark brown, slightly moist, very stiff	9.3	101.2	EI = 68 SR
		50-3"	R2		**Granitic Bedrock Excavates as:** silty f-c SAND, red-brown, slightly moist, very dense			
5		50-5"	R3		same as above	12.1		
					REFUSAL DUE TO BEDROCK AT 5.5 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
10								
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	BORING NO.: B-8 / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					3" Asphalt, No Base			
					Undocumented Fill:			
		16 23 30	R1	SM	Silty f-c SAND, clayey, dark brown, moist, dense	9.3	131.2	
5		29 50-5"	R2		very dense	10.2	127.5	
		19 38 42	R3		same as above	19.6	112.7	
10		50-5.5"	R4		**Granitic Bedrock Excavates as:** Silty f-c SAND, yellow-brown, slightly moist, very dense	10.1	118.3	
15		50-6"	R5		same as above	11.1	120.8	
					REFUSAL DUE TO BEDROCK AT 15.5 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; HC= Consolidation; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	**BORING NO.: I-1** / MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
				SM	**Alluvial Fan:** Silty f-c SAND, clayey, brown, slightly moist to moist			
5					**BORING TERMINATED AT 5 FEET** No groundwater encountered Boring set with pipe and gravel			
10								
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	HC= Consolidation	MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	TTLC Management, Inc. an Arizona Corp.	**DRILLER:**	2R Drilling, Inc.	**LOGGED BY:**	JD
PROJECT NAME:	APNs 166-280-60, -61, -18	**DRILL METHOD:**	Hollow-Stem Auger	**OPERATOR:**	George
PROJECT NO.:	3706-SD	**HAMMER:**	140 lbs - 30 in	**RIG TYPE:**	CME 75
LOCATION:	Vista, CA			**DATE:**	7/8/2021

BORING NO.: I-2

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/6 in.	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
				SM	**Alluvial Fan:** Silty f-c SAND, clayey, brown, slightly moist to moist			
5					**BORING TERMINATED AT 5 FEET** No groundwater encountered Boring set with pipe and gravel			
10								
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	HC= Consolidation	MD = Maximum Density

APPENDIX B

RESULTS OF LABORATORY TESTING

Proposed 34-Lot Residential Development
South Melrose Drive and Matagual Drive
Vista, San Diego County, California
Project No. 3706-SD

GEOTEK

SUMMARY OF LABORATORY TESTING

Classification

Soils were classified visually in general accordance with the Unified Soil Classification System (ASTM Test Method D 2487). The soil classifications are shown on the logs of borings in Appendix A.

Collapse Test

Collapse tests were performed on selected samples of the site soils in general accordance with ASTM D 5333 test procedures. The results of this test are presented graphically in Appendix B.

Direct Shear

Shear testing was performed in a direct shear machine of the strain-control type in general accordance with ASTM D 3080 test procedures. The rate of deformation was approximately 0.035 inch per minute. The sample was sheared under varying confining loads in order to determine the coulomb shear strength parameters, angle of internal friction and cohesion. The tests were performed on soil samples remolded to approximately 90 percent of maximum dry density as determined by ASTM D 1557 test procedures. The shear test results are presented in Appendix B.

Expansion Index

Expansion Index testing was performed on two soil samples. Testing was performed in general accordance with ASTM Test Method D 4829. The results of the testing are provided below.

Boring No.	Depth (ft.)	Description	Expansion Index	Classification
B-5	0-5	Sandy Clay	85	Medium
B-7	0-5	Sandy Clay	68	Medium

In-Situ Moisture and Density

The natural water content of sampled soils was determined in general accordance with ASTM D 2216 test procedures on samples of the materials recovered from the subsurface exploration. In addition, in-place dry density of the sampled soils was determined in general accordance with ASTM D 2937 test procedures on relatively undisturbed samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths in Appendix A.

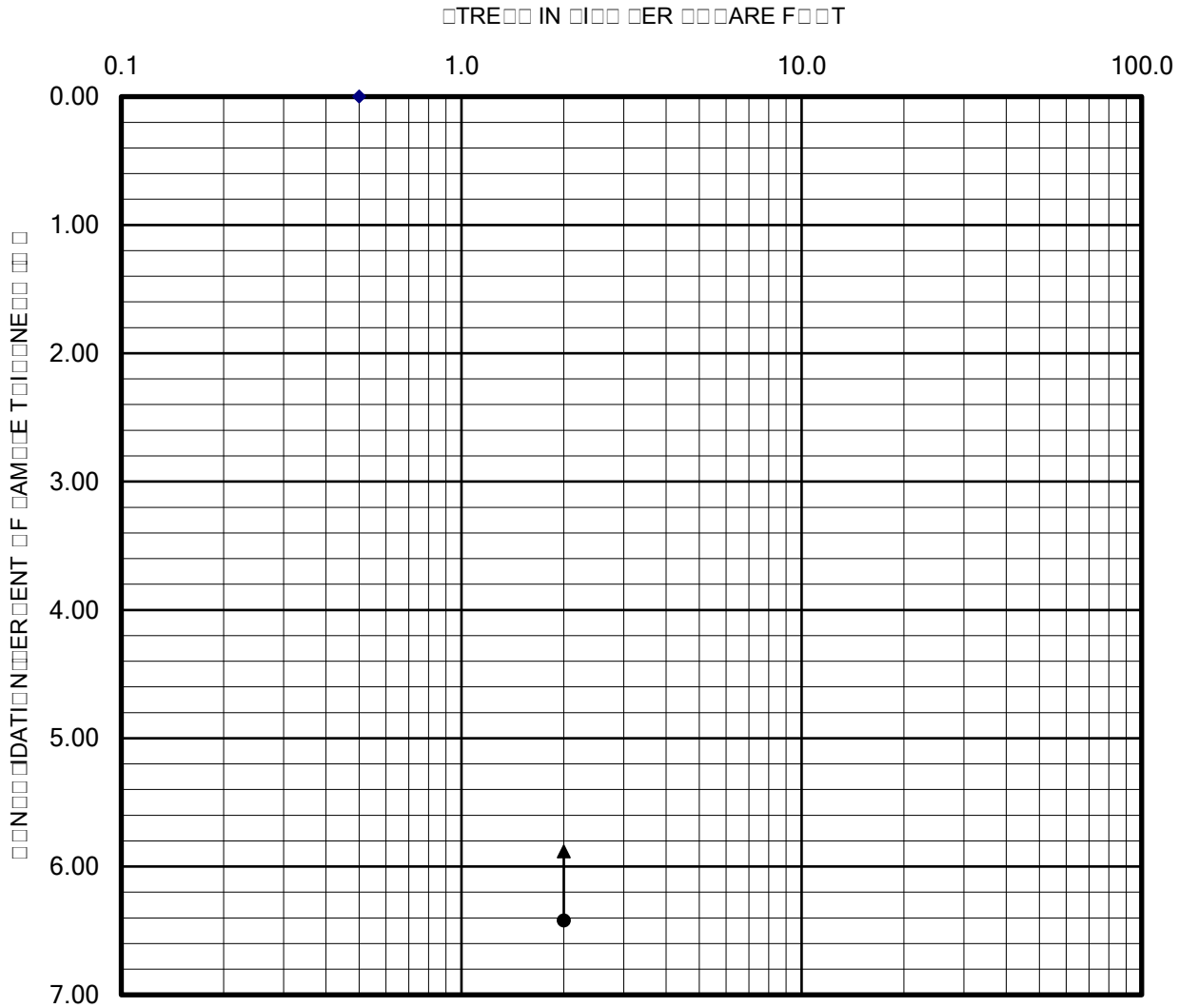
Moisture-Density Relationship

Laboratory testing was performed on two samples collected during the subsurface exploration. The laboratory maximum dry density and optimum moisture content for the soil type was determined in general accordance with test method ASTM Test Procedure D 1557. The results of the testing are provided in Appendix B.

Sulfate Content, Resistivity and Chloride Content

Testing to determine the water-soluble sulfate content was performed by others in general accordance with ASTM D4327 test procedures. Resistivity testing was completed by others in general accordance with ASTM G187 test procedures. Testing to determine the chloride content was performed by others in general accordance with ASTM D4327 test procedures. The results of the testing are provided below and in Appendix B.`

Boring No.	Depth (ft.)	pH ASTM D4972	Chloride ASTM D4327 (mg/kg)	Sulfate ASTM D4327 (% by weight)	Resistivity ASTM G187 (ohm-cm)
B-5	0-5	8.5	191.4	0.0108	804
B-7	0-5	9.0	58.1	0.0060	1,407



□ERF□RMED IN □ENERA□ A□□□RDAN□E □ IT□ A□TM D □□□□

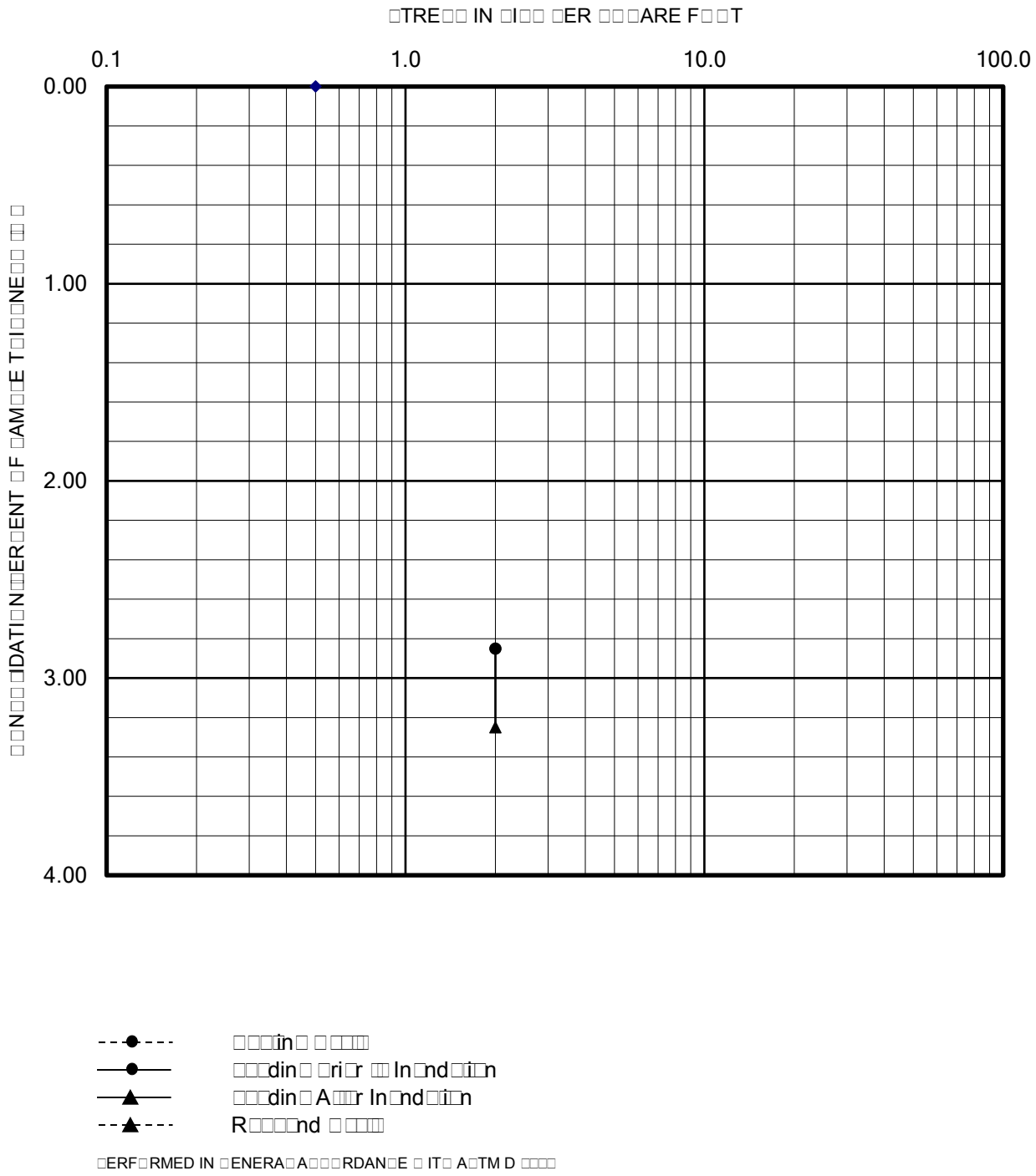
GEOTEK

COLLAPSE REPORT

Sample: B-2 @ 2 feet

Plate C-1

□□E□□ED □□□R□	□□□□□□r□n□
□R□ □E□T N□ □□ □□□□□□□D	D□□□□□□□□□□□□



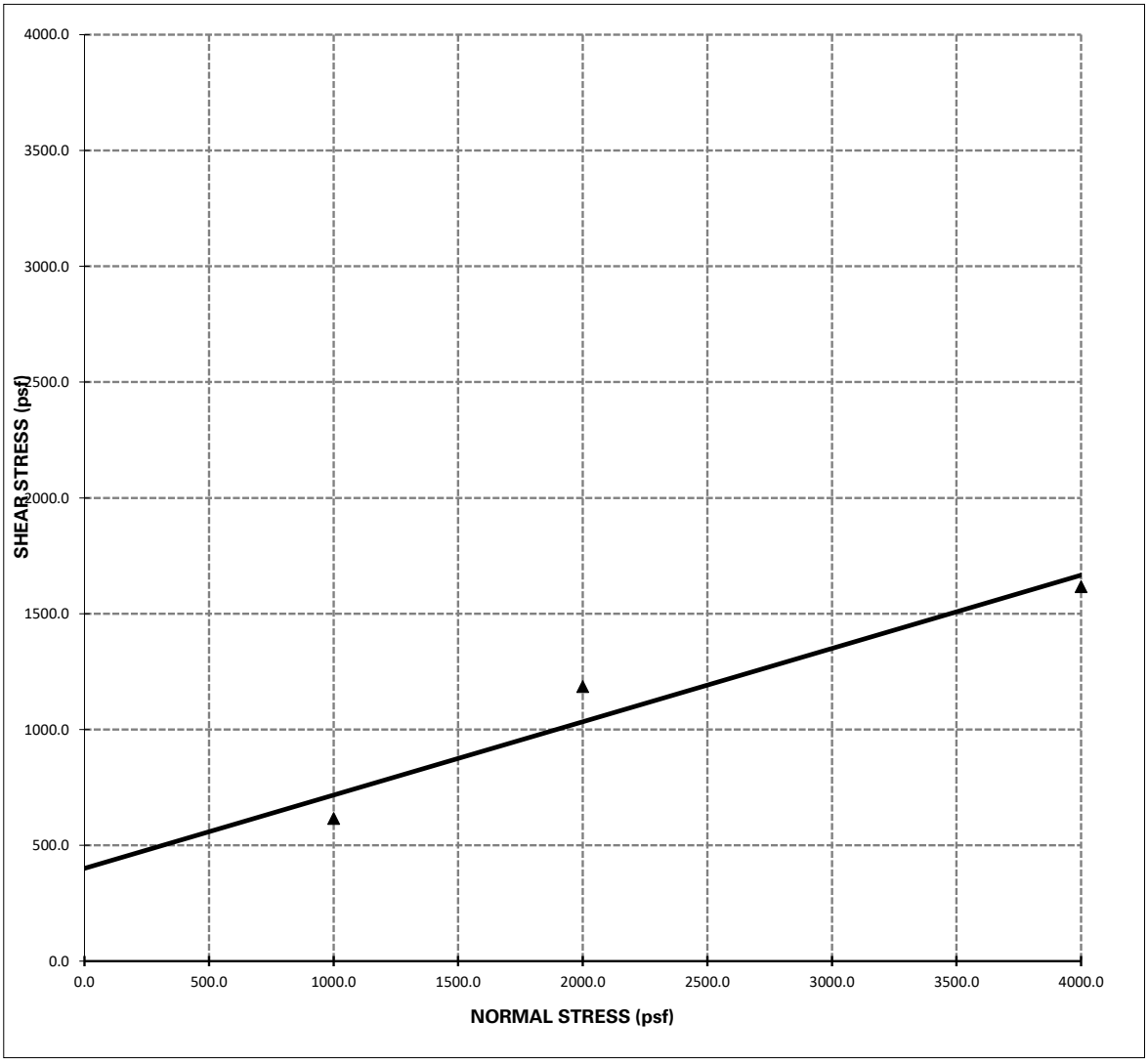
□ERF□RMED IN □ENERA□ A□□□RDAN□E □ IT□ A□TM D □□□□

GEOTEK	**COLLAPSE REPORT** **Sample: B-3 @ 1 feet**	**Plate C-2**
□□E□□ED □□□R□	□□□□□□r□n□	
□R□ □E□T N□ □□ □□□□□□□D	D□□□□□□□□□□	

DIRECT SHEAR TEST

Project Name:	TTLC Management Inc. an Arizona Corp.	***Sample Location:***	B2 @ 0-5'
Project Number:	3706-SD	***Date Tested:***	7/30/2021

PEAK VALUE



Shear Strength: Φ = 18 ° C = 401 psf

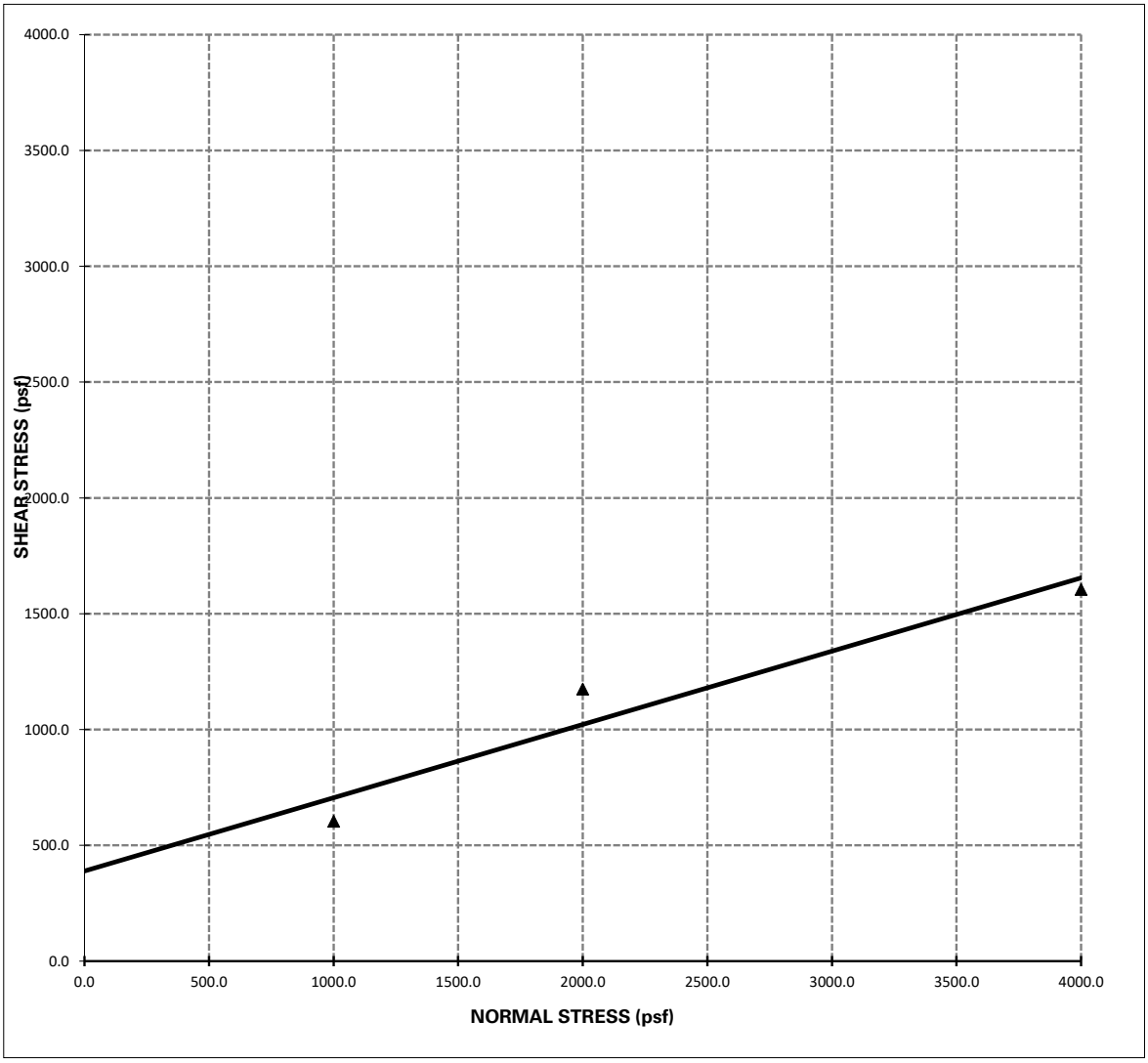
Notes: 1 - The soil specimen used in the shear box was a ring sample remolded to approximately 90% relative compaction from a bulk sample collected during the field investigation.

2 - The above reflect direct shear strength at saturated conditions.

3 - The tests were run at a shear rate of 0.035 in/min.

DIRECT SHEAR TEST

Project Name:	TTLC Management, Inc. an Arizona Corp.	***Sample Location:***	B2 @ 0-5'
Project Number:	3706-SD	***Date Tested:***	7/30/2021



Shear Strength: Φ = 18 ° C = 389 psf

Notes: 1 - The soil specimen used in the shear box was a ring sample remolded to approximately 90% relative compaction from a bulk sample collected during the field investigation.

2 - The above reflect direct shear strength at saturated conditions.

3 - The tests were run at a shear rate of 0.035 in/min.

GEOTEK

EXPANSION INDEX TEST

(ASTM D4829)

Client:	TT□□ M□n□□□□□ □n□□In□□□□n Ari□□n□ □ □r□□	***Tested/ Checked By:***	□D □□□ N□ □ □r□n□
Project Number:	□□□□□□□D	***Date Tested:***	□□□□□□□□□□□
Project Location:	□□M□□r□□□□ Dr□□ M□□□□□□□□Dr□	***Sample Source:***	□□ □ □□□□□
		Sample Description:	

Rin□ □□_____ Rin□ Di□□ □_____" Rin□ □ □□□□"

DENSITY DETERMINATION

A	□ □i□□□□□□□□□□ □□□□□□d □□□□ □□□□ □ rin□ □□□□ □	□□□□□□
B	□ □i□□□□□□rin□ □□□□ □	□□□□□□
C	N□□□□ □i□□□□□□□□□□ □□□□ □□□□ □	**388.1**
D	□ □□D□n□i□□□□□□ □□□□ □□□ □□□□□□□□□□	**117.1**
E	Dr□ D□n□i□□□□□□ □□□□ □D□□□F□	**105.1**

SATURATION DETERMINATION

F	M□i□□□r□ □ □n□□n□□□	□□□□
G	□□□□i□i□ □r□□i□□□□□□□□ □d	**2.70**
H	□ni□□ □□□□□□ □□□r □ □□°C, (pcf)	**62.4**
I	□ □□□□r□i□n	**51.0**

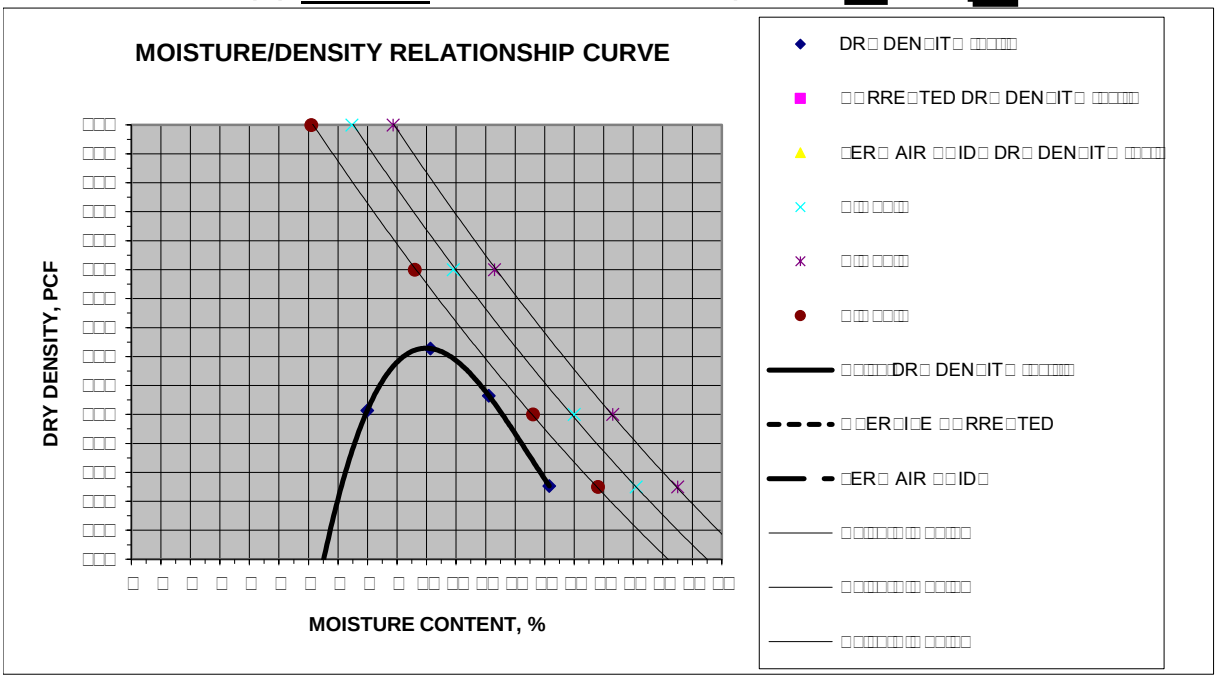
READINGS

DATE	TIME	READIN□	
□□□□□□□□□□		□□□□□□	Ini□i□□
□□□□□□□□□□		□□□□□□	□□ □ in□Dr□
□□□□□□□□□□		□□□□□□	Fin□□

FINAL MOISTURE

Fin□□□ □i□□□□□□□□ □□□ □□□ □ □□r□	□ M□i□□□r□
□□□□□□	**25.2**

EXPANSION INDEX = 85



GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	TT□□ M□n□□□□ □n□, In□ □n Ari□□n□ Co rp.	**Job No.:**	3706- □D
Project:	A□N' □166-2 □0□60,-61 & -18	**Lab No.:**	Co rona
Location:	-		
Material Type:	-		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B2 @ 0-5'		
	-		
Sampled By:	□D	**Date Sampled:**	7/12/2021
Received By:	R□	**Date Received:**	7/12/2021
Tested By:	□AA	**Date Tested:**	7/27/2021
Reviewed By:	R□	**Date Reviewed:**	7/28/2021

Test Procedure: A□TM D1557 **Method:** A

Oversized Material (%): 0.2 **Correction Required:** [ ] yes [x] no

MOISTURE/DENSITY RELATIONSHIP CURVE

MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	125.0	**@ Optimum Moisture, %**	10.0
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% □r□□□□r□□□in□d □n N□. 4)
	% □□nd (Pass ˙ng N□. 4, R□□□in□d □n N□. 200)
	% □i□□nd Clay (Pass ˙ng N□. 200)

Atterberg Limits:

	□i□□id L˙mit, %
	Plas ˙ic L˙mit, %
	Plas ˙ic˙ty Ind□□, %

Classification:

□ni□□d So˙ls □□□□□i□□□i□n:

AA□□T□ So˙ls □□□□□i□□□i□n:

Results Only Soil Testing for S. Melrose Dr & Matagual Dr.

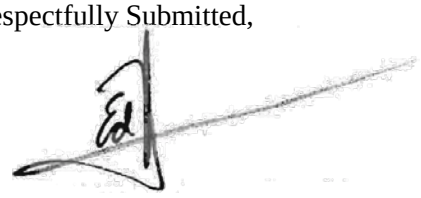
July 23, 2021

Prepared for:

Kyle McHargue
GeoTek, Inc.
1548 North Maple Street
Corona, CA 92280
kmchargue@geotekusa.com

Project X Job#: S210721A
Client Job or PO#: 3706-CR The True Life Companies

Respectfully Submitted,



Eduardo Hernandez, M.Sc., P.E.
Sr. Corrosion Consultant
NACE Corrosion Technologist #16592
Professional Engineer
California No. M37102
ehernandez@projectxcorrosion.com

Soil Analysis Lab Results

Client: GeoTek, Inc.
Job Name: S. Melrose Dr & Matagual Dr.
Client Job Number: 3706-CR The True Life Companies
Project X Job Number: S210721A
July 23, 2021

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM D4972	ASTM G200	ASTM D4658	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd | Minimum		**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Fluoride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
3706-CR B-5	0-5	108.4	0.0108	191.4	0.0191	8,040	804	8.5	154	<0.01	1.4	31.1	0.07	236.0	0.5	61.7	204.1	3.0	2.8
3706-CR B-7	0-5	59.9	0.0060	58.1	0.0058	10,050	1,407	9.0	132	<0.01	2.4	30.0	0.04	169.4	0.3	68.4	169.3	2.6	5.3

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

Project X Corrosion Engineering

Corrosion Control - Soil, Water, and Metallurgy Lab

Lab Request Sheet Chain of Custody

Phone: (213) 928-7213 · Fax (951) 226-1720 · www.projectxcorrosion.com

Ship Samples To: 29990 Technology Dr, Suite 13, Murrieta, CA 92563

Project X Job Number: S210721A Geotek 3706-CR S. Melrose Dr. 2 Full

IMPORTANT: Please complete Project and Sample Identification Data as you would like it to appear in report & include this form with samples.

Company Name:	Geotek USA	Contact Name:	Kyle McHargue
Phone No:	951.206.5443		
Mailing Address:	1548. N. Maple St Corona CA 92880	Contact Email:	kmchargue@geotekusa.com
Accounting Contact:		Invoice Email:	
Client Project No:	3706-CR - The True Life Companies	Project Name:	S. Melrose Dr. & Matagual Dr.
P.O. #:		3-5 Day Standard / 3 Day Guarantee 50% mark-up / 24 Hr RUSH 100% mark-up	
(Business Days) Turn Around Time:	5		
Results By: ☐ Phone ☐ Fax ☐ Email	5		
Date & Received by:	Arpe 07/21/21	Default Method	

Special Instructions:

ANALYSIS REQUESTED (Please circle)

	SAMPLE ID - BORE #	DESCRIPTION	DEPTH (ft)	DATE COLLECTED
206	1 3706-CR	B-5	0-5	
207	2 3706-CR	B-7	0-5	
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			

	Soil Resistivity	pH	Sulfate	Chloride	Redox Potential	Sulfide	Ammonia	Nitrate	Flouride	Phosphate	Lithium	Sodium	Potassium	Magnesium	Calcium	BiCarbonate	Full Corrosion Series	Soil Corrosivity Evaluation Report	Water Corrosivity Mini Report	Moisture Content	Total Alkalinity	Thermal Resistivity	Metallurgical Analysis	Langelier Index	Puckorius Index	XRF Elemental Analysis	Water Hardness
	Caltrans CTM643	Caltrans CTM643	Caltrans CTM417	Caltrans CTM422																							
	AASHTO T288	AASHTO T 289	AASHTO T 290	AASHTO T 291	SM 2580B		SM 4500-NH3	SM 4500-NO3																			
	ASTM G187	ASTM G 51	ASTM D4327	ASTM D4327	ASTM G200	SM 4500-S2	ASTM D5919	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	SM 2320B		*Req: Min. 3 Samples, site map, and groundwater info		ASTM D2216	SM 2320B						
	Geo Quad				Full Corrosion Series													Reports										
1																	X										
2																	X										

7/30

GEOTEK

EXPANSION INDEX TEST

(ASTM D4829)

Client:	TT□□ M□n□□□□□ □n□□In□□□□n Ari□□n□ □ □r□□	***Tested/ Checked By:***	□D □□□ N□ □ □r□n□
Project Number:	□□□□□□□D	***Date Tested:***	□□□□□□□□□□□
Project Location:	□□M□□r□□□□ Dr□□ M□□□□□□□□Dr□	***Sample Source:***	□□ □ □□□□□
		Sample Description:	

Rin□ □□_____ Rin□ Di□□ □_□□□□" Rin□ □ □□□"

DENSITY DETERMINATION

A	□ □i□□□□□□□□□ □□□□□d □□□ □□ rin□ □□□ □	□□□□□
B	□ □i□□□□□rin□ □□□ □	□□□□□
C	N□□□ □i□□□□□□□□□ □□□ □□□ □	**382.6**
D	□ □□D□n□i□□□□□ □□□ □□ □□□□□□□□	**115.4**
E	Dr□D□n□i□□□□□ □□□ □D□□F□	**103.4**

SATURATION DETERMINATION

F	M□i□□r□ □ □n□□n□□	□□□
G	□□□□i□□ □r□□i□□□□□□□ □d	**2.70**
H	□ni□□ □□□□□ □□r □ □□°C, (pcf)	**62.4**
I	□ □□□r□i□n	**49.8**

READINGS			
DATE	TIME	READIN□	
□□□□□□□□		□□□□□	Ini□□
□□□□□□□□		□□□□□	□□ □ in□Dr□
□□□□□□□□		□□□□□	Fin□□

FINAL MOISTURE	
Fin□□□ □i□□□□□□□□ □□□ □□□ □ □r□	□ M□i□□r□
□□□□□	**25.0**

EXPANSION INDEX = 68

APPENDIX C

PERCOLATION DATA SHEETS & PORCHET CALCULATIONS

Proposed 34-Lot Residential Development
South Melrose Drive and Matagual Drive
Vista, San Diego County, California
Project No. 3706-SD

GEOTEK

Client:	**TTLC Management Inc. an Arizona Corporation**
Project:	**45-Lot Residential Development**
Project No:	**3706-SD**
Date:	**7/9/2021**

Boring No. **I-1**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	40.25
Test Hole Radius, r =	4
Initial Depth to Water, D_O =	40
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\ (60r)}{\Delta t\ (r+2H_{avg})}$

$H_O = D_T - D_O$ =	20
$H_F = D_T - D_F$ =	19.75
$\Delta H = \Delta D = H_O - H_F$ =	0.25
$H_{avg} = (H_O+H_F)/2$ =	19.875

I_t = 0.05 **Inches per Hour**

GEOTEK

Client:	**TTLC Management Inc. an Arizona Corporation**
Project:	**45-Lot Residential Development**
Project No:	**3706-SD**
Date:	**7/9/2021**

Boring No. **I-2**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	40.25
Test Hole Radius, r =	4
Initial Depth to Water, D_O =	40
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\,(60r)}{\Delta t\,(r+2H_{avg})}$

$H_O = D_T - D_O$ =	20
$H_F = D_T - D_F$ =	19.75
$\Delta H = \Delta D = H_O - H_F$ =	0.25
$H_{avg} = (H_O+H_F)/2$ =	19.875

I_t = 0.05 **Inches per Hour**

GEOTEK

PERCOLATION DATA SHEET

Project: APNs 166-280-60, -61, -18 **Job No.: 3706-SD**

Test Hole No.: I-1 **Tested by: JD** **Date: 7/9/21**

Depth of Hole As Drilled: 60 inches **Before Test: 60 inches** **After Test: 60 inches**

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)	Comments
1	8:17AM - 8:42AM	25	60	20	19.75	0.25	
2	8:44AM - 9:09AM	25	60	20	19.75	0.25	
3	9:11AM - 9:41AM	30	60	20	19.75	0.25	
4	9:43AM - 10:13AM	30	60	20	19.75	0.25	
5	10:15AM - 10:45AM	30	60	20	19.75	0.25	
6	10:47AM - 11:17AM	30	60	20	19.75	0.25	
7	11:19AM - 11:49AM	30	60	20	19.75	0.25	
8	11:51AM - 12:21PM	30	60	20	19.75	0.25	
9	12:23PM - 12:53PM	30	60	20	19.75	0.25	
10	12:55PM - 1:25PM	30	60	20	19.75	0.25	
11	1:27PM - 1:57PM	30	60	20	19.75	0.25	
12	1:59PM - 2:29PM	30	60	20	19.75	0.25	
13	2:31PM - 3:01PM	30	60	20	19.75	0.25	
14	3:03PM - 3:33PM	30	60	20	19.75	0.25	

GEOTEK

PERCOLATION DATA SHEET

Project: APNs 166-280-60, -61, -18 **Job No.: 3706-SD**

Test Hole No.: I-2 **Tested by: JD** **Date: 7/9/21**

Depth of Hole As Drilled: 60 inches **Before Test: 60 inches** **After Test: 60 inches**

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)	Comments
1	8:10AM - 8:35AM	25	60	20	20.25	0.75	
2	8:37AM - 9:02AM	25	60	20	20.5	0.50	
3	9:04AM - 9:34AM	30	60	20	20.5	0.50	
4	9:36AM - 10:06AM	30	60	20	20.5	0.50	
5	10:08AM - 10:38AM	30	60	20	20.75	0.25	
6	10:40AM - 11:10AM	30	60	20	20.75	0.25	
7	11:12AM - 11:42AM	30	60	20	20.75	0.25	
8	11:44AM - 12:14PM	30	60	20	20.75	0.25	
9	12:16PM - 12:46PM	30	60	20	20.75	0.25	
10	12:48PM - 1:18PM	30	60	20	20.75	0.25	
11	1:20PM - 1:50PM	30	60	20	20.75	0.25	
12	1:52PM - 2:22PM	30	60	20	20.75	0.25	
13	2:24PM - 2:54PM	30	60	20	20.75	0.25	
14	2:56PM - 3:26PM	30	60	20	20.75	0.25	

GEOTEK

APPENDIX D

GENERAL GRADING GUIDELINES

Proposed 34-Lot Residential Development
South Melrose Drive and Matagual Drive
Vista, San Diego County, California
Project No. 3706-SD

GEOTEK

GENERAL GRADING GUIDELINES

Guidelines presented herein are intended to address general construction procedures for earthwork construction. Specific situations and conditions often arise which cannot reasonably be discussed in general guidelines, when anticipated these are discussed in the text of the report. Often unanticipated conditions are encountered which may necessitate modification or changes to these guidelines. It is our hope that these will assist the contractor to more efficiently complete the project by providing a reasonable understanding of the procedures that would be expected during earthwork and the testing and observation used to evaluate those procedures.

General

Grading should be performed to at least the minimum requirements of governing agencies, Chapters 18 and 33 of the Uniform Building Code, CBC (2019) and the guidelines presented below.

Preconstruction Meeting

A preconstruction meeting should be held prior to site earthwork. Any questions the contractor has regarding our recommendations, general site conditions, apparent discrepancies between reported and actual conditions and/or differences in procedures the contractor intends to use should be brought up at that meeting. The contractor (including the main onsite representative) should review our report and these guidelines in advance of the meeting. Any comments the contractor may have regarding these guidelines should be brought up at that meeting.

Grading Observation and Testing

1. Observation of the fill placement should be provided by our representative during grading. Verbal communication during the course of each day will be used to inform the contractor of test results. The contractor should receive a copy of the "Daily Field Report" indicating results of field density tests that day. If our representative does not provide the contractor with these reports, our office should be notified.
2. Testing and observation procedures are, by their nature, specific to the work or area observed and location of the tests taken, variability may occur in other locations. The contractor is responsible for the uniformity of the grading operations; our observations and test results are intended to evaluate the contractor’s overall level of efforts during grading. The contractor’s personnel are the only individuals participating in all aspect of site work. Compaction testing and observation should not be considered as relieving the contractor’s responsibility to properly compact the fill.
3. Cleanouts, processed ground to receive fill, key excavations, and subdrains should be observed by our representative prior to placing any fill. It will be the contractor's responsibility to notify our representative or office when such areas are ready for observation.

4. Density tests may be made on the surface material to receive fill, as considered warranted by this firm.
5. In general, density tests would be made at maximum intervals of two feet of fill height or every 1,000 cubic yards of fill placed. Criteria will vary depending on soil conditions and size of the fill. More frequent testing may be performed. In any case, an adequate number of field density tests should be made to evaluate the required compaction and moisture content is generally being obtained.
6. Laboratory testing to support field test procedures will be performed, as considered warranted, based on conditions encountered (e.g. change of material sources, types, etc.) Every effort will be made to process samples in the laboratory as quickly as possible and in progress construction projects are our first priority. However, laboratory workloads may cause in delays and some soils may require a **minimum of 48 to 72 hours to complete test procedures**. Whenever possible, our representative(s) should be informed in advance of operational changes that might result in different source areas for materials.
7. Procedures for testing of fill slopes are as follows:
    a) Density tests should be taken periodically during grading on the flat surface of the fill, three to five feet horizontally from the face of the slope.
    b) If a method other than over building and cutting back to the compacted core is to be employed, slope compaction testing during construction should include testing the outer six inches to three feet in the slope face to determine if the required compaction is being achieved.
8. Finish grade testing of slopes and pad surfaces should be performed after construction is complete.

Site Clearing

1. All vegetation, and other deleterious materials, should be removed from the site. If material is not immediately removed from the site it should be stockpiled in a designated area(s) well outside of all current work areas and delineated with flagging or other means. Site clearing should be performed in advance of any grading in a specific area.
2. Efforts should be made by the contractor to remove all organic or other deleterious material from the fill, as even the most diligent efforts may result in the incorporation of some materials. This is especially important when grading is occurring near the natural grade. All equipment operators should be aware of these efforts. Laborers may be required as root pickers.
3. Nonorganic debris or concrete may be placed in deeper fill areas provided the procedures used are observed and found acceptable by our representative.

Treatment of Existing Ground

1. Following site clearing, all surficial deposits of alluvial fan deposits should be removed unless otherwise specifically indicated in the text of this report.
2. In some cases, removal may be recommended to a specified depth (e.g. flat sites where partial alluvial removals may be sufficient). The contractor should not exceed these depths unless directed otherwise by our representative.
3. Groundwater existing in alluvial areas may make excavation difficult. Deeper removals than indicated in the text of the report may be necessary due to saturation during winter months.
4. Subsequent to removals, the natural ground should be processed to a depth of six inches, moistened to near optimum moisture conditions and compacted to fill standards.

Fill Placement

1. Unless otherwise indicated, all site soil and bedrock may be reused for compacted fill; however, some special processing or handling may be required (see text of report).
2. Material used in the compacting process should be evenly spread, moisture conditioned, processed, and compacted in thin lifts six (6) to eight (8) inches in compacted thickness to obtain a uniformly dense layer. The fill should be placed and compacted on a nearly horizontal plane, unless otherwise found acceptable by our representative.
3. If the moisture content or relative density varies from that recommended by this firm, the contractor should rework the fill until it is in accordance with the following:
    a) Moisture content of the fill should be at or above optimum moisture. Moisture should be evenly distributed without wet and dry pockets. Pre-watering of cut or removal areas should be considered in addition to watering during fill placement, particularly in clay or dry surficial soils. The ability of the contractor to obtain the proper moisture content will control production rates.
    b) Each six-inch layer should be compacted to at least 90 percent of the maximum dry density in compliance with the testing method specified by the controlling governmental agency. In most cases, the testing method is ASTM Test Designation D 1557.
4. Rock fragments less than eight inches in diameter may be utilized in the fill, provided:
    a) They are not placed in concentrated pockets;
    b) There is a sufficient percentage of fine-grained material to surround the rocks;
    c) The distribution of the rocks is observed by, and acceptable to, our representative.
5. Rocks exceeding eight (8) inches in diameter should be taken off site, broken into smaller fragments, or placed in accordance with recommendations of this firm in areas designated suitable for rock disposal. On projects where significant large quantities of oversized materials are anticipated, alternate guidelines for placement may be included. If significant oversize materials are encountered during construction, these guidelines should be requested.

6. In clay soil, dry or large chunks or blocks are common. If in excess of eight (8) inches minimum dimension, then they are considered as oversized. Sheepsfoot compactors or other suitable methods should be used to break up blocks. When dry, they should be moisture conditioned to provide a uniform condition with the surrounding fill.

Slope Construction

1. The contractor should obtain a minimum relative compaction of 90 percent out to the finished slope face of fill slopes. This may be achieved by either overbuilding the slope and cutting back to the compacted core, or by direct compaction of the slope face with suitable equipment.
2. Slopes trimmed to the compacted core should be overbuilt by at least three (3) feet with compaction efforts out to the edge of the false slope. Failure to properly compact the outer edge results in trimming not exposing the compacted core and additional compaction after trimming may be necessary.
3. If fill slopes are built "at grade" using direct compaction methods, then the slope construction should be performed so that a constant gradient is maintained throughout construction. Soil should not be "spilled" over the slope face nor should slopes be "pushed out" to obtain grades. Compaction equipment should compact each lift along the immediate top of slope. Slopes should be back rolled or otherwise compacted at approximately every 4 feet vertically as the slope is built.
4. Corners and bends in slopes should have special attention during construction as these are the most difficult areas to obtain proper compaction.
5. Cut slopes should be cut to the finished surface. Excessive undercutting and smoothing of the face with fill may necessitate stabilization.

UTILITY TRENCH CONSTRUCTION AND BACKFILL

Utility trench excavation and backfill is the contractors responsibility. The geotechnical consultant typically provides periodic observation and testing of these operations. While efforts are made to make sufficient observations and tests to verify that the contractors' methods and procedures are adequate to achieve proper compaction, it is typically impractical to observe all backfill procedures. As such, it is critical that the contractor use consistent backfill procedures.

Compaction methods vary for trench compaction and experience indicates many methods can be successful. However, procedures that "worked" on previous projects may or may not prove effective on a given site. The contractor(s) should outline the procedures proposed, so that we may discuss them **prior** to construction. We will offer comments based on our knowledge of site conditions and experience.

1. Utility trench backfill in slopes, structural areas, in streets and beneath flat work or hardscape should be brought to at least optimum moisture and compacted to at least 90 percent of the laboratory standard. Soil should be moisture conditioned prior to placing in the trench.
2. Flooding and jetting are not typically recommended or acceptable for native soils. Flooding or jetting may be used with select sand having a Sand Equivalent (SE) of 30 or higher. This is typically limited to the following uses:
   a) shallow (12 + inches) under slab interior trenches and,
   b) as bedding in pipe zone.

   The water should be allowed to dissipate prior to pouring slabs or completing trench compaction.
3. Care should be taken not to place soils at high moisture content within the upper three feet of the trench backfill in street areas, as overly wet soils may impact subgrade preparation. Moisture may be reduced to 2% below optimum moisture in areas to be paved within the upper three feet below sub grade.
4. Sand backfill should not be allowed in exterior trenches adjacent to and within an area extending below a 1:1 projection from the outside bottom edge of a footing, unless it is similar to the surrounding soil.
5. Trench compaction testing is generally at the discretion of the geotechnical consultant. Testing frequency will be based on trench depth and the contractors procedures. A probing rod would be used to assess the consistency of compaction between tested areas and untested areas. If zones are found that are considered less compact than other areas, this would be brought to the contractors attention.

JOB SAFETY

General

Personnel safety is a primary concern on all job sites. The following summaries are safety considerations for use by all our employees on multi-employer construction sites. On ground personnel are at highest risk of injury and possible fatality on grading construction projects. The company recognizes that construction activities will vary on each site and that job site safety is the contractor's responsibility. However, it is, imperative that all personnel be safety conscious to avoid accidents and potential injury.

In an effort to minimize risks associated with geotechnical testing and observation, the following precautions are to be implemented for the safety of our field personnel on grading and construction projects.

1. Safety Meetings: Our field personnel are directed to attend the contractor's regularly scheduled safety meetings.

2. Safety Vests: Safety vests are provided for and are to be worn by our personnel while on the job site.
3. Safety Flags: Safety flags are provided to our field technicians; one is to be affixed to the vehicle when on site, the other is to be placed atop the spoil pile on all test pits.

In the event that the contractor's representative observes any of our personnel not following the above, we request that it be brought to the attention of our office.

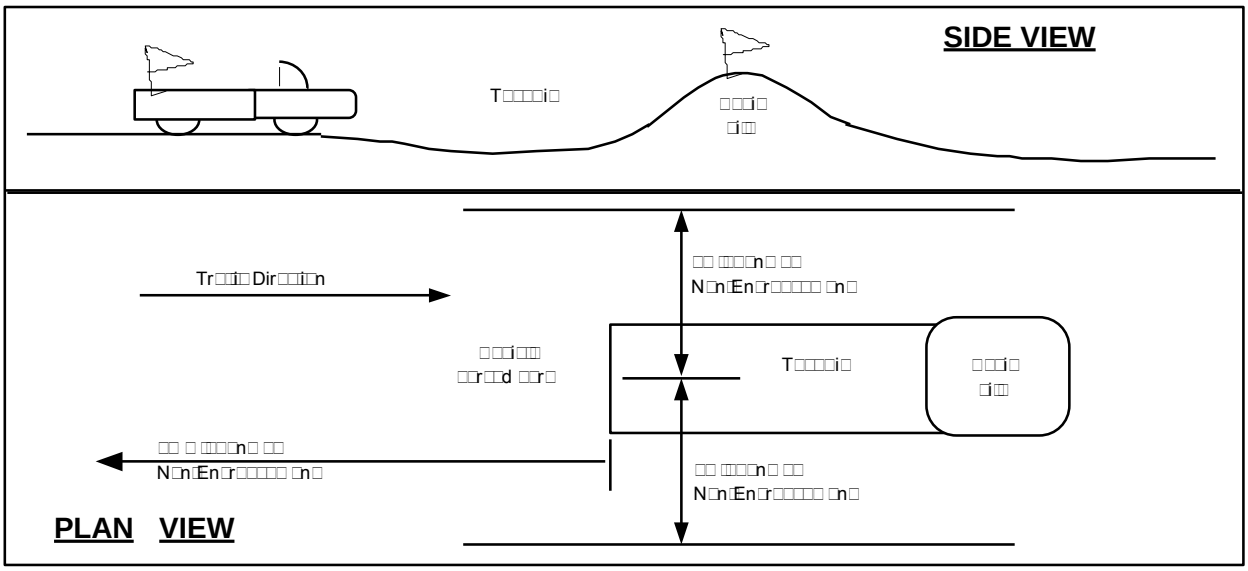
Test Pits Location, Orientation and Clearance

The technician is responsible for selecting test pit locations. The primary concern is the technician's safety. However, it is necessary to take sufficient tests at various locations to obtain a representative sampling of the fill. As such, efforts will be made to coordinate locations with the grading contractors authorized representatives (e.g. dump man, operator, supervisor, grade checker, etc.), and to select locations following or behind the established traffic pattern, preferably outside of current traffic. The contractors authorized representative should direct excavation of the pit and safety during the test period. Again, safety is the paramount concern.

Test pits should be excavated so that the spoil pile is placed away from oncoming traffic. The technician's vehicle is to be placed next to the test pit, opposite the spoil pile. This necessitates that the fill be maintained in a drivable condition. Alternatively, the contractor may opt to park a piece of equipment in front of test pits, particularly in small fill areas or those with limited access.

A zone of non-encroachment should be established for all test pits (see diagram below). No grading equipment should enter this zone during the test procedure. The zone should extend outward to the sides approximately 50 feet from the center of the test pit and 100 feet in the direction of traffic flow. This zone is established both for safety and to avoid excessive ground vibration, which typically decreases test results.

TEST PIT SAFETY PLAN



Slope Tests

When taking slope tests, the technician should park their vehicle directly above or below the test location on the slope. The contractor's representative should effectively keep all equipment at a safe operation distance (e.g. 50 feet) away from the slope during testing.

The technician is directed to withdraw from the active portion of the fill as soon as possible following testing. The technician's vehicle should be parked at the perimeter of the fill in a highly visible location.

Trench Safety

It is the contractor's responsibility to provide safe access into trenches where compaction testing is needed. Trenches for all utilities should be excavated in accordance with CAL-OSHA and any other applicable safety standards. Safe conditions will be required to enable compaction testing of the trench backfill.

All utility trench excavations in excess of 5 feet deep, which a person enters, are to be shored or laid back. Trench access should be provided in accordance with OSHA standards. Our personnel are directed not to enter any trench by being lowered or "riding down" on the equipment.

Our personnel are directed not to enter any excavation which;

1. is 5 feet or deeper unless shored or laid back,
2. exit points or ladders are not provided,
3. displays any evidence of instability, has any loose rock or other debris which could fall into the trench, or
4. displays any other evidence of any unsafe conditions regardless of depth.

If the contractor fails to provide safe access to trenches for compaction testing, our company policy requires that the soil technician withdraws and notifies their supervisor. The contractors representative will then be contacted in an effort to effect a solution. All backfill not tested due to safety concerns or other reasons is subject to reprocessing and/or removal.

Procedures

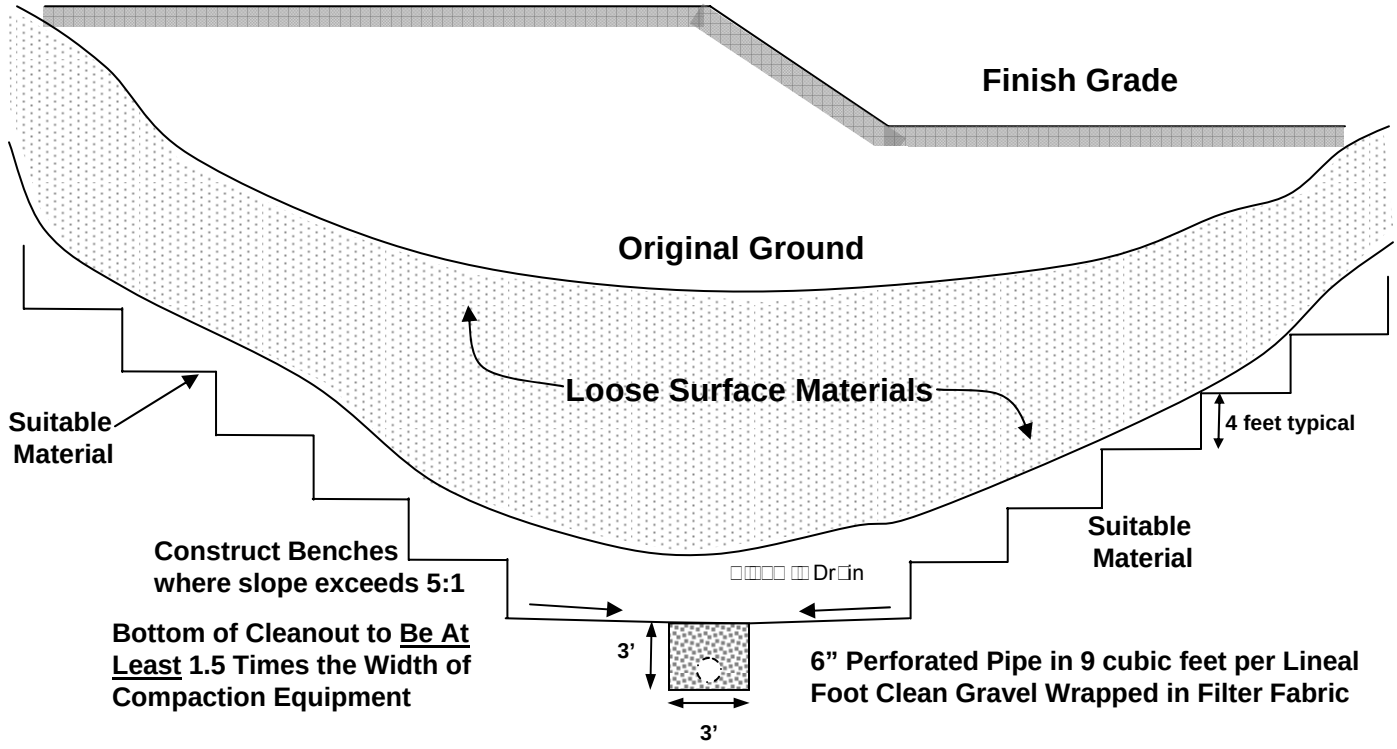
In the event that the technician's safety is jeopardized or compromised as a result of the contractor's failure to comply with any of the above, the technician is directed to inform both the developer's and contractor's representatives. If the condition is not rectified, the technician is required, by company policy, to immediately withdraw and notify their supervisor. The contractor's representative will then be contacted in an effort to effect a solution. No further testing will be performed until the situation is rectified. Any fill placed in the interim can be considered unacceptable and subject to reprocessing, recompaction or removal.

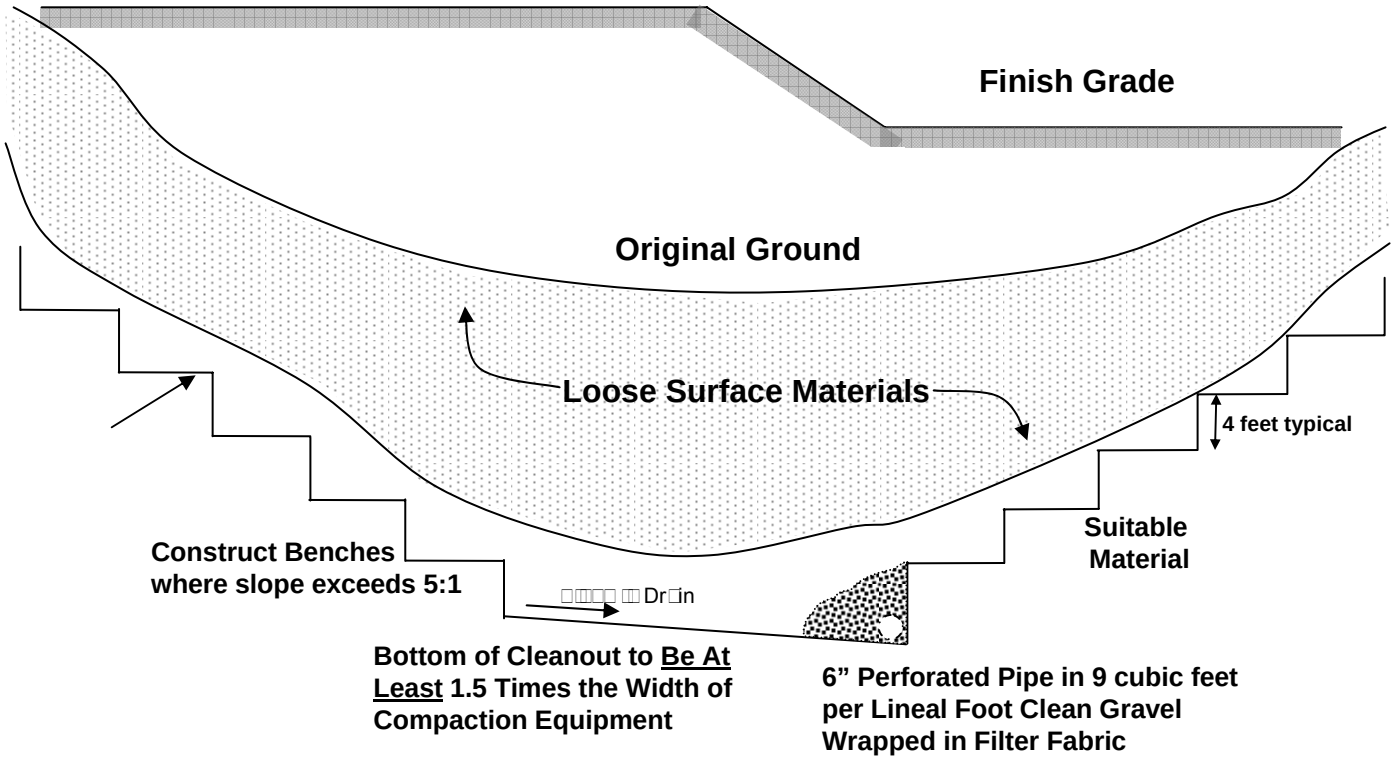
In the event that the soil technician does not comply with the above or other established safety guidelines, we request that the contractor bring this to technicians attention and notify our project manager or office. Effective communication and coordination between the contractors' representative and the field technician(s) is strongly encouraged in order to implement the above safety program and safety in general.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.

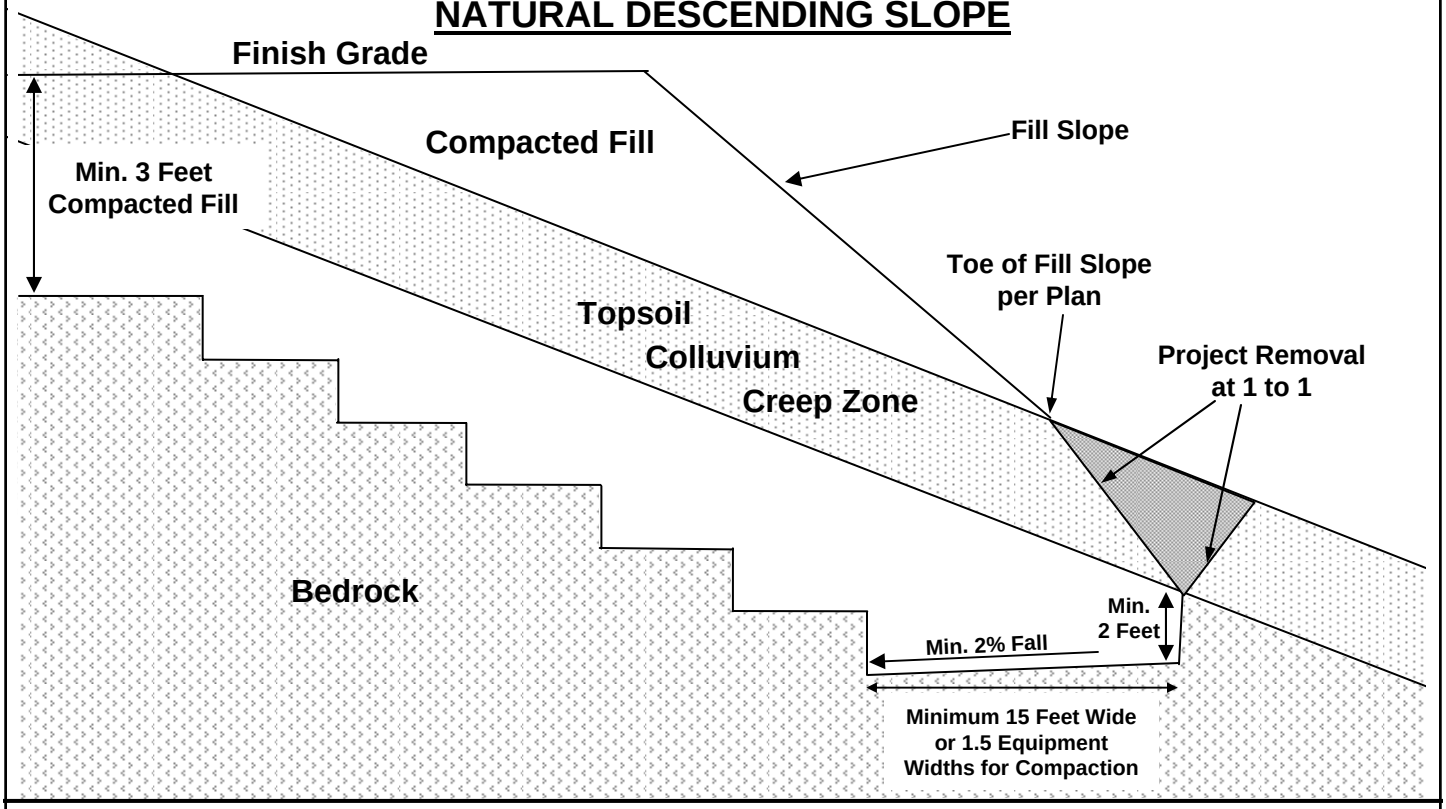
ALTERNATES



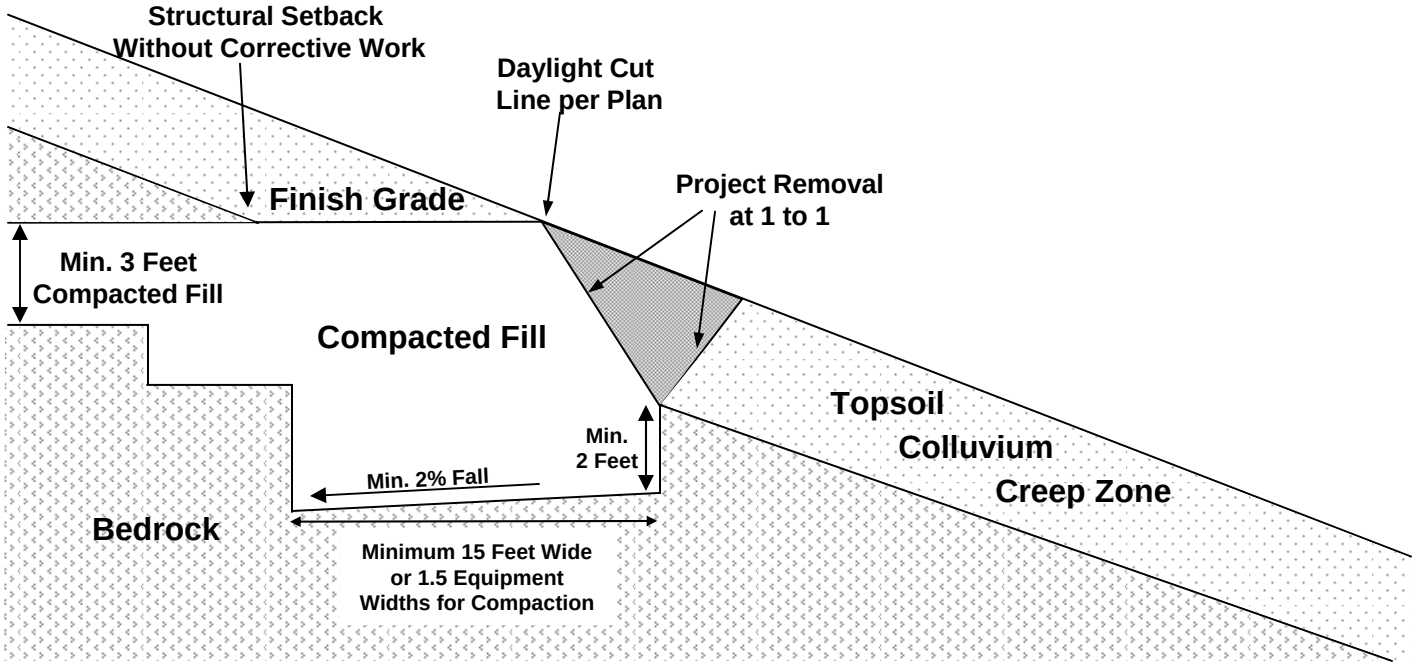


GEOTEK	1548 North Maple Street Corona, California 92880	TYPICAL CANYON CLEANOUT	STANDARD GRADING GUIDELINES PLATE G-1

TYPICAL FILL SLOPE OVER NATURAL DESCENDING SLOPE



DAYLIGHT CUT AREA OVER NATURAL DESCENDING SLOPE



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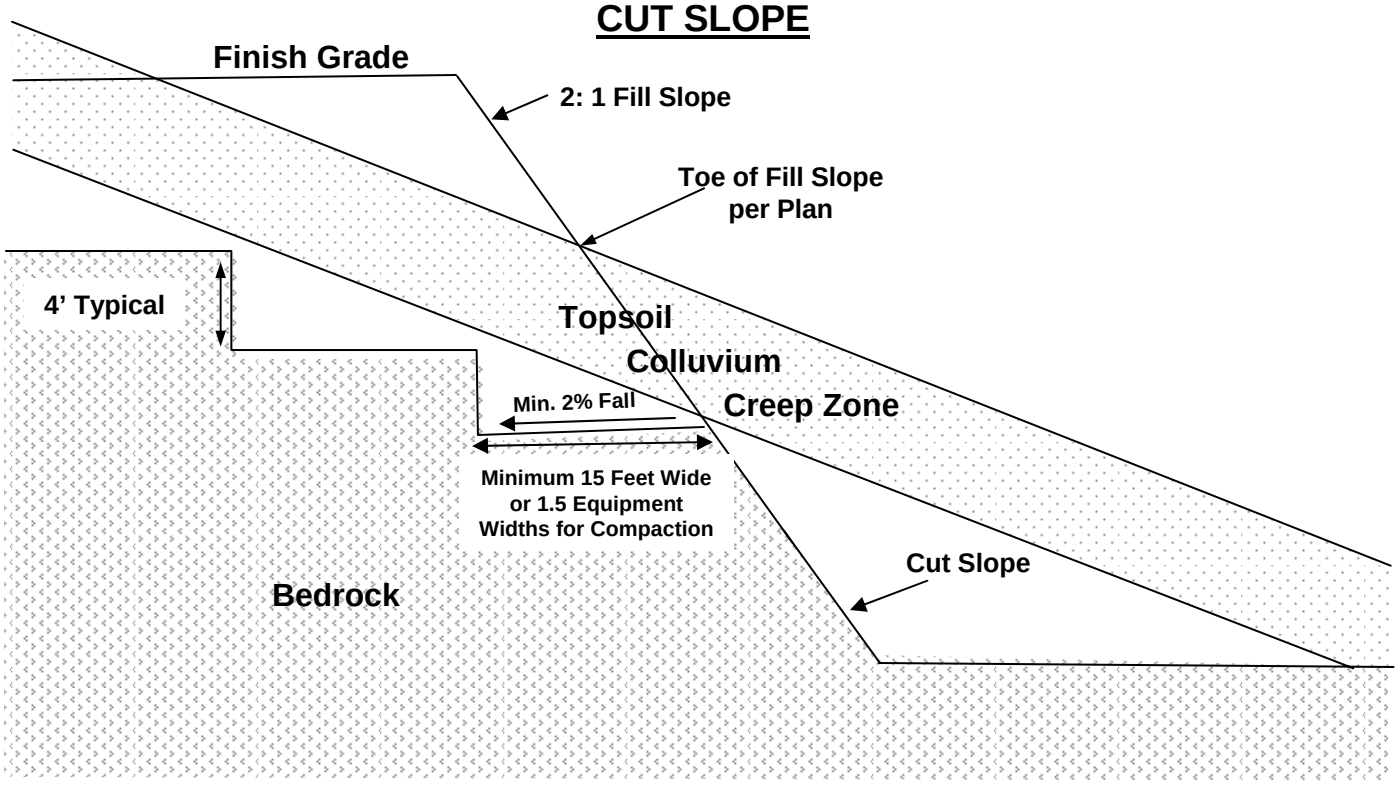
1548 North Maple Street
Corona, California 92880

TREATMENT ABOVE NATURAL SLOPES

STANDARD GRADING GUIDELINES

PLATE G-2

TYPICAL FILL SLOPE OVER CUT SLOPE



TYPICAL FILL SLOPE

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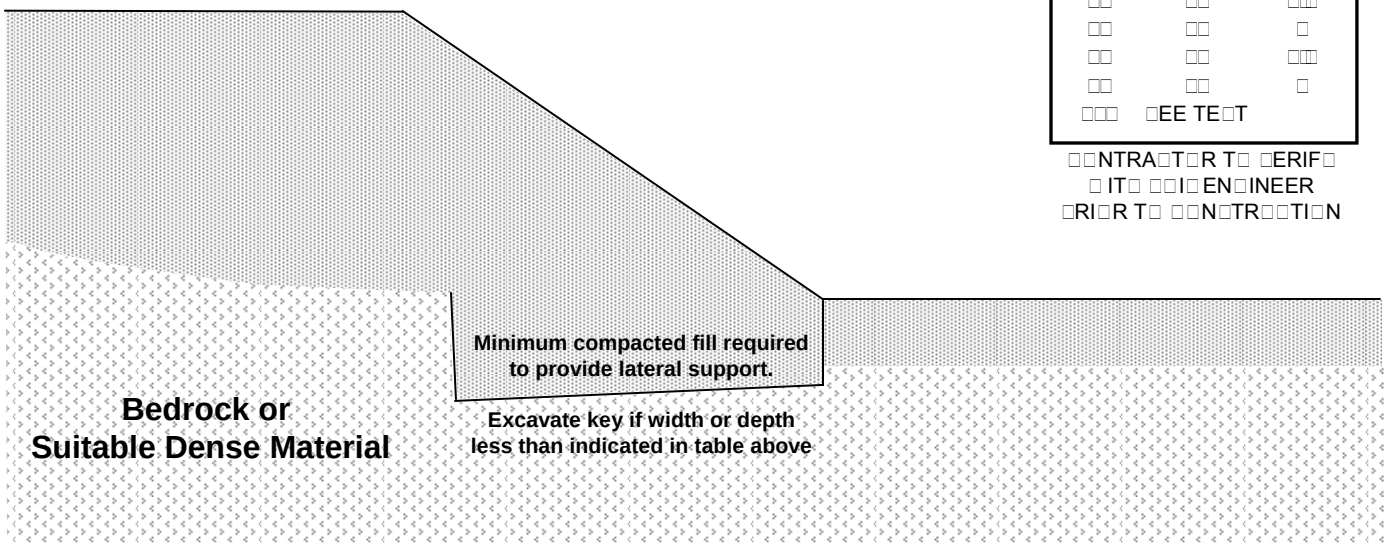

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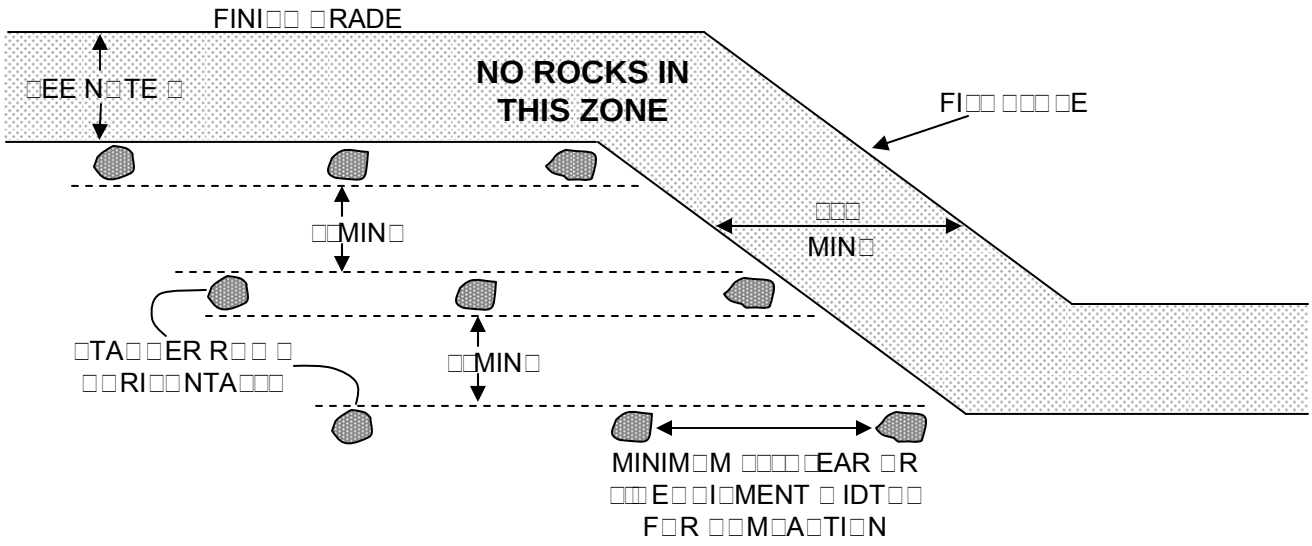
1548 North Maple Street
Corona, California 92880

COMMON FILL SLOPE KEYS

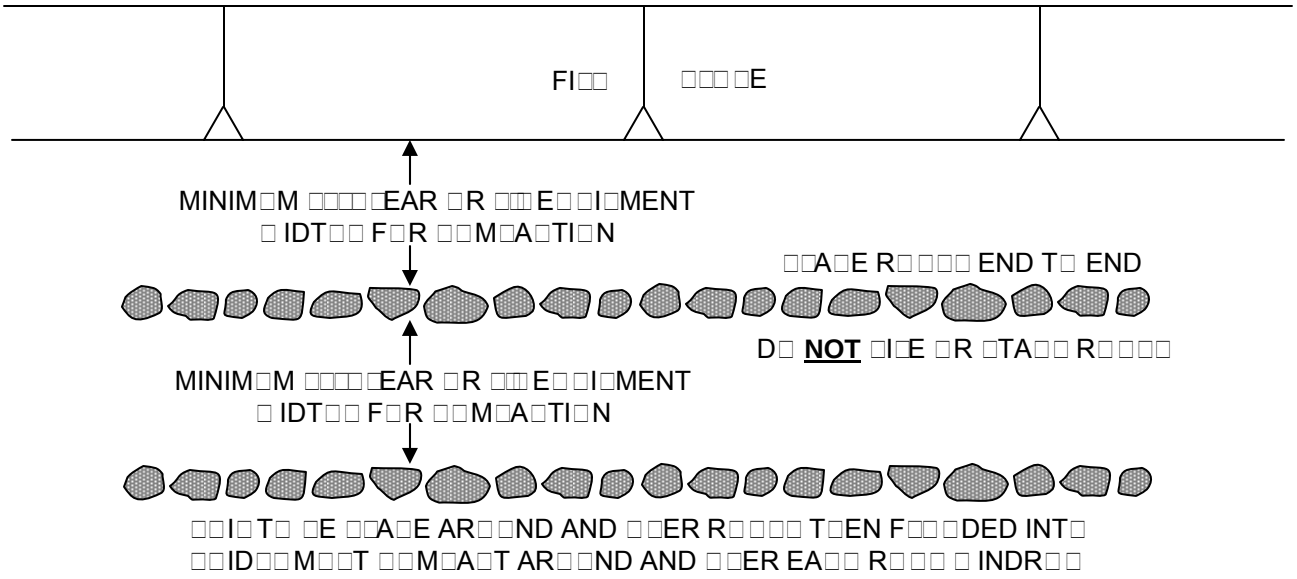
STANDARD GRADING GUIDELINES

PLATE G-3

CROSS SECTIONAL VIEW



PLAN VIEW



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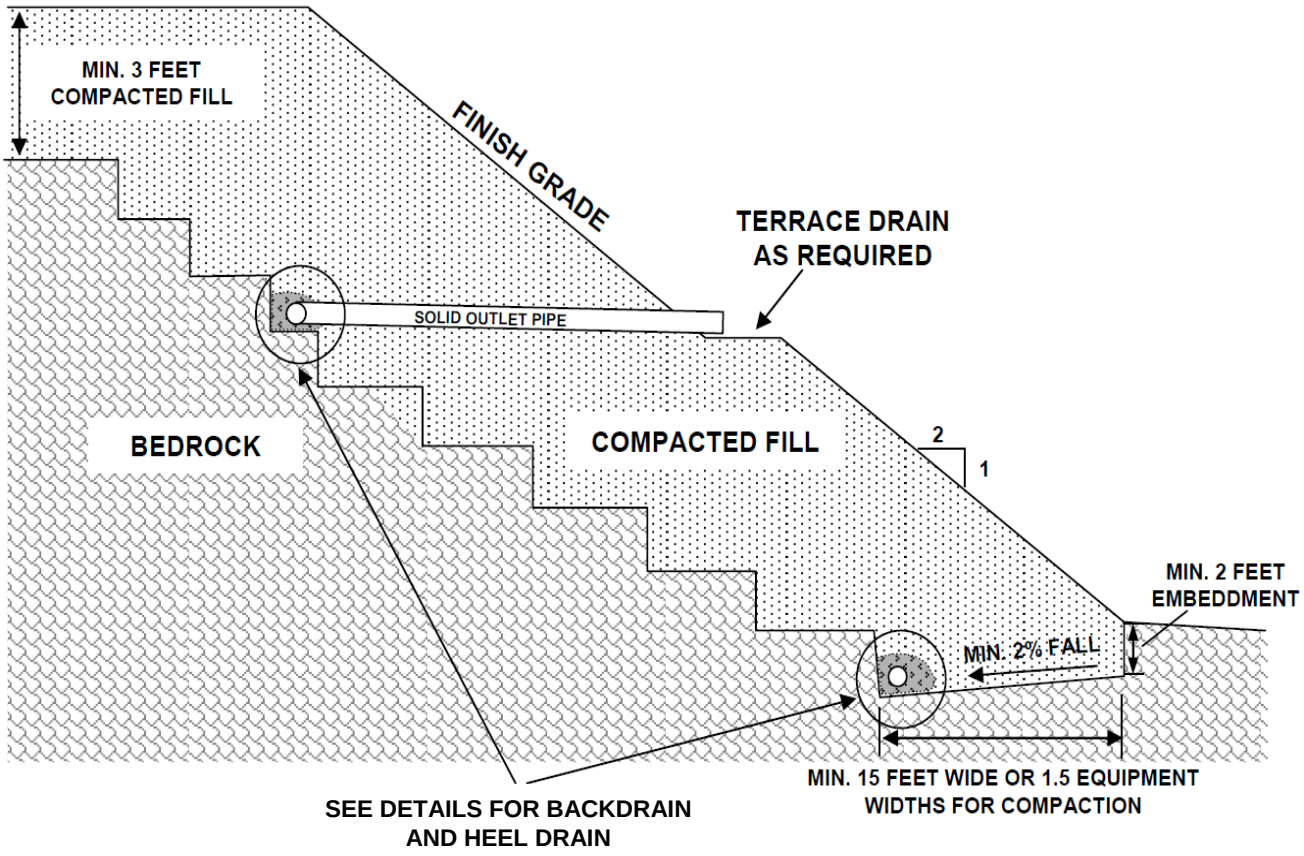
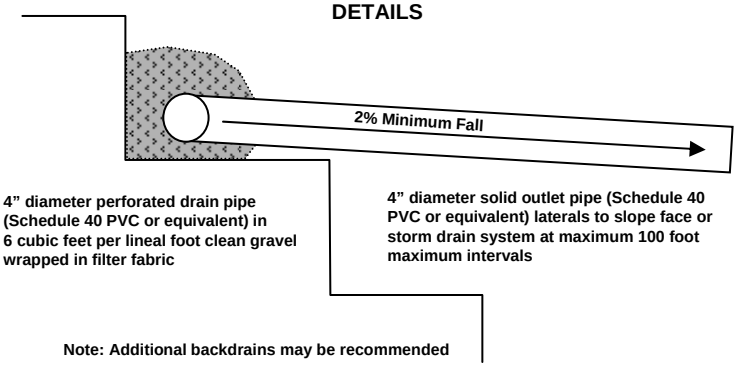
GEOTEK 1548 North Maple Street Corona, California 92880	ROCK BURIAL DETAILS	STANDARD GRADING GUIDELINES PLATE G-4



BACKDRAIN DETAILS



4" diameter perforated drain pipe (Schedule 40 PVC or equivalent) in 6 cubic feet per lineal foot clean gravel wrapped in filter fabric

4" diameter solid outlet pipe (Schedule 40 PVC or equivalent) laterals to slope face or storm drain system at maximum 100 foot maximum intervals

Note: Additional backdrains may be recommended

HEEL DRAIN DETAILS

6" diameter perforated drain pipe in 6 cubic feet per lineal foot clean gravel wrapped in filter fabric, outlet pipe to gravity flow with 2% minimum fall

GEOTEK	1548 North Maple Street Corona, California 92880	TYPICAL BUTTRESS AND STABILIZATION FILL	STANDARD GRADING GUIDELINES PLATE G-5

Appendix F

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ASSESSOR'S PARCEL NUMBERS: 166-280-60, -61 AND -18
SOUTHEAST CORNER OF SOUTH MELROSE DRIVE AND MATAGUAL DRIVE
VISTA, SAN DIEGO COUNTY, CALIFORNIA 92571

July 20, 2021
Project No. 3706-SD

Prepared For:

TTLC Management, Inc. an Arizona Corporation
2942 Century Place, Suite 121
Costa Mesa, California 92626

GEOTEK

GeoTek, Inc.
1548 North Maple Street, Corona, California 92878
(951) 710-1160 Office (951) 710-1167 Fax www.geotekusa.com

July 20, 2021
Project No. 3706-SD

TTLC Management, Inc. an Arizona Corporation
2942 Century Place, Suite 121
Costa Mesa, California 92626

Attention: Mr. Michael Torres

Subject: Phase I Environmental Site Assessment
Assessor's Parcel Numbers: 166-280-60, -61 and -18
Southeast Corner of South Melrose Drive and Matagual Drive
Vista, San Diego County, California

Dear Mr. Torres:

GEOTEK, INC. (GEOTEK) is pleased to present this Phase I Environmental Site Assessment for the above-referenced subject Site. Services were conducted in substantial conformance with the scope and limitations of the American Society of Testing and Materials E 1527-13, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,*" which is approved to meet the requirements of the federal All Appropriate Inquiries (AAI) standards as set forth in the Code of Federal Regulations, Title 40, Section 312 (40 CFR 312), and GEOTEK'S Proposal No. P-0601521-SD, dated June 18, 2021.

This Phase I Environmental Site Assessment has not revealed evidence of a recognized environmental condition in connection with the subject Site. No further investigation is recommended at this time.

Please be aware that prior to demolition of any of the existing Site structures, federal and state regulations require asbestos-containing materials (ACM) and lead-based paint (LBP) surveys be performed.

We appreciate this opportunity to be of service. If you have any questions, or if we can be of further service, please contact us at (951) 710-1160.

Sincerely,
GEOTEK, INC.

Edward H. LaMont
Principal Geologist, CEG 1892
Expires 07/31/2022

J. Michael Batten, CEM, REPA
Environmental Services Manager
Registered Environmental Property Assessor No. 113162
Expires 06/15/2022

Kyle R. McHargue
Project Geologist, PG 9790
Expires 02/28/2022

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1.0 EXECUTIVE SUMMARY

GeoTek, Inc. (GeoTek) has performed a Phase I Environmental Site Assessment (ESA) for the subject property: Assessor's Parcel Numbers 166-280-60, -61 and -18, (the "Site"), located in the City of Vista, San Diego County, California. Our services were conducted in substantial conformance with the scope and limitations of the American Society of Testing and Materials (ASTM) E 1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", which is approved to meet the requirements of the federal All Appropriate Inquiries (AAI) standards as set forth in the Code of Federal Regulations, Title 40, Section 312 (40 CFR 312), and GeoTek Proposal No. P-0601521-SD, dated June 18, 2021. Any additions or deletions from our scope of services are discussed in the appropriate sections of this assessment.

A representative of GEOTEK conducted a Site reconnaissance on July 2, 2021. The weather was hot and the sky was clear. The irregular shaped Site is currently comprised of three (3) parcels of land (identified as San Diego County Assessor's Parcel Numbers [APNs] 166-280-60, -61 and -18), encompassing an area of about 5.28 acres. The Site can generally be accessed by South Melrose Drive to the west or Matagual Drive to the north.

The Site currently is comprised of a religious facility (addressed as 560 South Melrose Avenue), vacant land and a single-family residence (addressed as 622 South Melrose Avenue). The inside of these structures was not observed at the time of this report. Visual evidence of hazardous substances or wastes was not observed during our Site reconnaissance. No pungent or acrid odors were observed emanating from the Site.

The Site is in an area largely characterized by residential and commercial development. The Site is bordered on the north by Matagual Drive, followed by a religious facility (addressed as 490 South Melrose Drive); on the east by residential development; on the south by Melrose Dental Arts Plaza (addressed as 620 South Melrose Drive) and residential development; and on the west by South Melrose Drive, followed by commercial development.

Based on readily available historic information, the Site appears to have vacant land from at least 1939 until at least 1946. The existing single-family residence on the southeast portion of the Site is first visible in the 1953 aerial photograph. The existing religion facility on the west portion of the Site is first visible in the 1964 aerial photograph. There are no significant changes in the 1967, 1970 and 1979 aerial photographs. The paved parking area associated with the religious facility is first visible in the 1985 aerial photograph. There are no significant changes to the Site from 1985 to the present. The surrounding areas generally appear to vacant land with some

agricultural use and sporadic single family residences from at least 1939 until at least 1953. Increased expansion of residential development in the surrounding areas is visible from 1964 to 1985. Commercial development is visible to the west and northwest of the Site from the 2002 aerial photograph to the 2016 aerial photograph.

The Site does not appear on the database report obtained for this assessment. One (1) of the adjacent properties appears on the database report. The facility is listed on the RCRA Non-Generators database. The facility is listed as Michael C. Maksim DDS, addressed as 630 South Melrose Drive. The facility is located approximately 0.028 mile south of the Site. The facility description is listed "offices of dentists" and no violations are listed.

There are 25 additional facilities listed on the database report within the various search distances specified by ASTM E 1527-13. Due to their status listings, distances and/or locations hydro-geologically down- or cross-gradient, these facilities do not represent an environmental concern to the Site.

This Phase I Environmental Site Assessment has not revealed evidence of a recognized environmental condition in connection with the subject Site. No additional investigation is recommended at this time.

Please be aware that prior to demolition of any of the existing Site structures, federal and state regulations require asbestos-containing materials (ACM) and lead-based paint (LBP) surveys be performed.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

2.0 INTRODUCTION

GEOTEK, INC. (GEOTEK) has performed a Phase I Environmental Site Assessment (ESA) for San Diego County Assessor's Parcel Numbers 166-280-60, -61 and -18 (the "Site"), located in the City of Vista, San Diego County, California.

2.1 PURPOSE

The purpose of this Phase I ESA was to identify and evaluate actual and potential environmental conditions involving the subject Site. It was not the purpose of this assessment to determine the degree or extent of contamination, if any, but rather the potential for contamination.

2.2 SCOPE OF WORK

The Phase I ESA is a general characterization of environmental concerns based on reasonably ascertainable information and observations. GEOTEK performed the Phase I ESA in substantial accordance with ASTM E 1527-13. The following services were provided for the assessment:

- A reconnaissance of the Site and surrounding properties to visually assess current utilization and indications of potential surface contamination. This was accomplished by driving the Site boundaries, and then traversing the Site until the entire Site had been surveyed.

- A reconnaissance of the surrounding area for approximately one-half mile was conducted, without entering the properties, making observations concerning property uses, conditions, and housekeeping.

- A review of the geologic and hydro-geologic settings was conducted using reasonably ascertainable public records and documents.

- An environmental database report was obtained from a data service provider. This database report compiles and locates documented "hazardous waste" facilities within specific minimum search distances as defined by ASTM E 1527-13. If necessary, additional information on identified facilities was gathered by a file review at the appropriate federal, state, local, and/or tribal regulatory agency.

- A review of reasonably ascertainable historical records (including aerial photographs, topographic maps, building records, environmental liens and AULs, and city directories)

was conducted to assess the historical land utilization and indications of potential contamination or sources of contamination for the Site.

- This report was prepared, which relates the findings of this study and presents our conclusions and recommendations.

Specific items not included in this Scope of Services are soil analysis, water analysis, asbestos containing materials analysis, radon analysis, lead-based paint analysis, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, vapor intrusion testing, high voltage power lines, and other items not within the scope of ASTM E 1527-13.

2.3 SIGNIFICANT ASSUMPTIONS

Specific assumptions by GEOTEK for this assessment include:

- GEOTEK had permission to access the Site grounds;
- The client has provided GEOTEK with available geotechnical or environmental reports for the Site;
- The client has provided GEOTEK with known current or historic uses of hazardous materials at the Site, or with other specialized knowledge of the environmental history of the Site and surrounding area;
- The client is not the sole and absolute source of information;
- Seller has provided proper and complete access to their knowledge, both written and verbal, and GEOTEK can rely on the information.

2.4 LIMITATIONS AND EXCEPTIONS

GEOTEK conducted a Phase I Environmental Site Assessment in substantial accordance with ASTM E 1527-13 and as authorized by TTLC Management, Inc. an Arizona Corporation. This study does not include sampling of soil, groundwater and/or asbestos and lead of existing structures for environmental testing. This report is intended for the use of TTLC Management, Inc. an Arizona Corporation. The contents should not be relied upon by any party other than the aforementioned without the express written consent of GEOTEK.

The findings, conclusions, and recommendations made in this report are based on the information that was made available to GEOTEK, in most instances from public records. The information is relevant to the date of our site work and should not be relied on to represent conditions at any later date. The opinions and conclusions expressed herein are based on information obtained during our assessment and on our experience and current standards of technical practice. GEOTEK makes no other warranties, either express or implied, concerning the completeness of the data furnished to us. GEOTEK cannot be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time our assessment was undertaken. GEOTEK is not responsible, nor liable for work, testing or recommendations performed or provided by others. This Phase I Environmental Site Assessment is not and should not be construed as a warranty or guarantee about the presence or absence of environmental hazards or contaminants, which may affect the subject site. Facts, conditions, and acceptable risk factors change with time; accordingly, this report should be viewed within this context.

Specific limitations to the scope of ASTM E 1527-13 due to contract limitations, availability of resources, and/or encountered Site conditions are discussed in the appropriate section(s) of this report.

2.5 SPECIAL TERMS AND CONDITIONS

This assessment report is presented as fulfilling the standard requirements of most financial institutions, governmental regulatory agencies, ASTM, and generally accepted industry standards and practices. Please refer to GEOTEK Proposal No. P-0601521-SD for complete terms and conditions for this assessment.

2.6 RELIANCE

This assessment has been prepared for the exclusive use and may be relied upon by TTLC Management, Inc. an Arizona Corporation and the successors and assignees. Third party reliance letters may be issued upon request and upon the payment of the, then current, fee for such letters. All third parties relying on this report, by such reliance, agree to be bound by the General Conditions and Limitations agreed to TTLC Management, Inc. an Arizona Corporation. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

3.0 DESCRIPTION OF SITE AND SURROUNDING AREA

The objective of describing the Site and surrounding area is to document current conditions as observed and to obtain information which would indicate the likelihood of a recognized environmental condition in connection with the Site. A representative of GEOTEK conducted a Site reconnaissance on June 2, 2021. The weather was hot and the sky was clear. The Site can generally be accessed by South Melrose Drive to the west or Matagual Drive to the north.

3.1 SITE LOCATION AND LEGAL DESCRIPTION

The Site is located east of South Melrose Drive and south of Matagual Drive in the City of Vista, San Diego County, California. According to the U.S. Geological Survey (USGS) San Marcos and topographic map sheet (7.5-minute series), the Site is located in Sections 25, Township 11 South, Range 4 West (see Figure 1 in Appendix A and documents in Appendix B). The San Diego County Assessor's Parcel Numbers (APNs) are 166-280-60, -61 and -18.

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site currently is comprised of a religious facility (addressed as 560 South Melrose Avenue), vacant land and a single-family residence (addressed as 622 South Melrose Avenue).

The Site is in an area largely characterized by residential and commercial development.

3.3 CURRENT PROPERTY USE

The Site currently is comprised of a religious facility (addressed as 560 South Melrose Avenue), vacant land and a single-family residence (addressed as 622 South Melrose Avenue).

3.4 SITE IMPROVEMENTS

Site improvements currently consist of a religious facility (addressed as 560 South Melrose Avenue), and a single-family residence (addressed as 622 South Melrose Avenue). Photographs of the Site are included in Appendix C.

3.4.1 HAZARDOUS SUBSTANCES

Visual evidence of hazardous substances or wastes was not observed. No pungent or acrid odors were observed emanating from the Site.

3.4.2 Storage Tanks

GeoTek did not observe evidence of underground ground storage tanks (such as vent pipes, fill pipes, regular-shaped depressions, etc.) on the Site.

3.4.3 Poly-Chlorinated Biphenyls (PCBs)

GeoTek did not observe suspect equipment (transformers, elevators, hydraulic lift mechanisms, trash compactors, etc.) which may contain PCBs on the Site.

3.4.4 Controlled Substances

GeoTek consulted the U.S. Drug Enforcement Agency (DEA) website to cross-check the Site address against published facilities subject to DEA enforcement. The Site did not appear on the list of published facilities, based on cross-streets.

GeoTek did not observe evidence of illegal or controlled substances being used or manufactured at the Site.

3.4.5 Indications of Solid Waste Disposal

Waste disposal for the Site and Site area is provided by EDCO.

3.4.6 Utility Supply

Water services for the Site and area are provided by Vista Irrigation District. Sewer services for the Site and area are provided by the City of Vista. Natural gas and electric services for the Site and area are provided by San Diego Gas and Electric (SDG&E).

3.4.7 Drainage

Natural drainage at the Site is generally interpreted to be toward the northwest, conforming to the natural topography in the area. Ponded water was not observed during our Site reconnaissance.

3.4.8 Other Conditions of Concern

No visual indication of water wells, dry wells, cesspools, or other conditions of concern that would indicate a recognized environmental condition were observed during the Site reconnaissance. No stressed vegetation was observed.

No evidence of a septic system was observed during our site reconnaissance. However, given the age of the existing residence it is likely that a septic system exists on the Site. If present, prior to any development the septic system should be abandoned or removed per San Diego County Department of Environmental Health guidelines.

3.4.9 Interviews

GeoTek interviewed the following individuals while performing this assessment:

- Mr. Michael Torres (a representative of the current Site owners) completed a User Questionnaire.

Information from this interview is incorporated into the appropriate sections of this report.

3.5 Current Adjoining Property Use

The Site is in an area largely characterized by residential and commercial development. The Site is bordered on the north by Matagual Drive, followed by a religious facility (addressed as 490 South Melrose Drive); on the east by residential development; on the south by Melrose Dental Arts Plaza (addressed as 620 South Melrose Drive) and residential development; and on the west by South Melrose Drive, followed by commercial development.

4.0 CLIENT PROVIDED INFORMATION

As a form of interview, a representative of the current Site owner completed a "User Questionnaire" for the Site in accordance with ASTM E 1527-13. A copy of the completed questionnaire is included in Appendix B.

4.1 ENVIRONMENTAL CLEAN UP LIENS

Mr. Michael Torres is not aware of any environmental clean-up liens at the Site.

4.2 ACTIVITY AND USE LIMITATIONS

Mr. Michael Torres is not aware of any activity use limitations at the Site.

4.3 SPECIALIZED KNOWLEDGE

Mr. Michael Torres does not have any specialized knowledge or familiarity related to the Site.

4.4 PURCHASE PRICE

Mr. Michael Torres states that the purchase price being paid for the Site is confidential. However, he states the purchase price is not affected by known or potential contamination on the Site.

4.5 COMMONLY KNOWN INFORMATION

Mr. Michael Torres states that he is not aware of any commonly known or reasonably ascertainable information related to the Site.

4.6 OBVIOUS INDICATORS OF CONTAMINATION

Mr. Michael Torres is not aware of obvious indicators of a likely environmental impact at the Site.

4.7 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

At the time of this reporting the religious facility is owned by Acme Investment Services; the vacant land and the single-family residence (addressed as 622 South Melrose Drive) is owned by Jerry Michael Suppa. Mr. Suppa and occupants of the religious facility were not available for an interview at the time of our Site reconnaissance.

4.8 Reason for Performing Phase I ESA

This Phase I ESA was performed at the request of TTLC Management, Inc. an Arizona Corporation as part of their due diligence for possible future improvements on the Site and in order to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002.

4.9 Other User Provided Information

GeoTek was not provided with any user information for the Site by TTLC Management, Inc. an Arizona Corporation.

5.0 PROPERTY PHYSICAL SETTING

Surface and subsurface environments are of interest because they control the movement of water-born contaminants, which could be transported to and from the subject Site. GEOTEK reviewed information regarding the physical setting of the subject Site and immediately surrounding area.

5.1 REGIONAL GEOLOGY

The property is situated in the Peninsular Ranges geomorphic province. The Peninsular Ranges province is one of the largest geomorphic units in western North America. Basically, it extends from the point of contact with the Transverse Ranges geomorphic province, southerly to the tip of Baja California. This province varies in width from about 30 to 100 miles. It is bounded on the west by the Pacific Ocean, on the south by the Gulf of California and on the east by the Colorado Desert Province.

The Peninsular Ranges are essentially a series of northwest-southeast oriented fault blocks. Several major fault zones are found in this province. The Elsinore Fault zone and the San Jacinto Fault zone trend northwest-southeast and are found near the middle of the province. The San Andreas Fault zone borders the northeasterly margin of the province.

5.2 LOCAL GEOLOGIC SETTING AND TOPOGRAPHY

The Site and Site area are understood to be underlain by surficial alluvium and areas of granitic bedrock (Kennedy, Michael P, and Tan, Siang S., 2007). Additional data regarding soil survey information for the Site and Site area are also included in Appendix B.

The Site and Site area can be considered as having moderately sloping terrain in the south-southeast and gently sloping in the central and north portions of the Site. The Site terrain is generally sloping to the southwest. Based on the USGS topographic map for the area and other documents reviewed for this report, the elevation of the subject Site ranges from approximately 415 feet above mean sea level in the southeast to approximately 340 feet above mean sea level in the northwest.

5.3 VICINITY SURFACE DRAINAGE

Natural drainage at the Site is interpreted to be dominantly directed toward the northwest, conforming to the natural topography in the area.

According to the Federal Emergency Management Agency (FEMA), the Site is not located within a 100- or 500-year flood zone (Community Panel Nos. 06073C-0759G, and -0767G, dated May 16, 2012).

5.4 HYDROGEOLOGY

According to a review of historical groundwater data (California Department of Water Resources and California State Water Resources Control Board groundwater well data [http://wdl.water.ca.gov and http://geotracker.waterboards.ca.gov]), and in-house information, depth to groundwater is likely greater than 30 feet below ground surface (bgs) in the general Site area.

6.0 ENVIRONMENTAL REGULATORY RECORDS REVIEW

The records review is conducted to help identify known recognized environmental conditions at the Site and/or on adjacent or nearby properties which may have impacted the subject Site.

6.1 ENVIRONMENTAL DATABASE RECORDS SEARCH

GEOTEK obtained and reviewed an environmental database report of the federal and state environmental records specified by ASTM E 1527-13. The database report was provided by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. Additionally, orphan or un-mappable sites listed by EDR were reviewed for the approximate minimum search distances noted and included in our discussion, if applicable. Refer to Appendix D for a copy of the database report.

ENVIRONMENTAL DATABASE	MINIMUM SEARCH DISTANCE	SITE	ADJACENT	TOTAL LISTED
U.S. Environmental Protection Agency (EPA) - National Priorities List (NPL), including delisted NPL	1.0 Mile	No	0	0
EPA – Superfund Enterprise Management System (SEMS), including archived sites (formerly CERCLIS)	0.5 Mile	No	0	0
EPA – Resource Conservation and Recovery Act (RCRA), Corrective Action Facilities (CORRACTS)	1.0 Mile	No	0	0
EPA – RCRA, Transportation, Storage, and Disposal facilities (TSD)	0.5 Mile	No	0	0
EPA - RCRA Generators	Site and Adjacent	No	1	1
EPA – Emergency Response Notification System (ERNS)	Site	No	N/A	0
Federal institutional control/engineering control registries	Site	No	0	0
California Environmental Protection Agency (CEPA) – State Response Sites (Response, formerly Annual Work Plan and Bond Expenditure Plan)	1.0 Mile	No	0	0

ENVIRONMENTAL DATABASE	MINIMUM SEARCH DISTANCE	SITE	ADJACENT	TOTAL LISTED
CEPA – EnviroStor Database (formerly CALSITES)	0.5 Mile	No	0	1
CEPA – CHMIRS - California Hazardous Materials Information Reporting System	Site	No	No	0
CEPA - Solid Waste Fill/Landfill (SWF/LF), Solid Waste Assessment Test (SWAT)/Waste Management Unit Database System (WMUDS) and Recycling Facilities (SWRCY)	0.5 Mile	No	0	1
CEPA – Leaking Underground Storage Tanks (LUST)	0.5 Mile	No	0	3
CEPA – Underground Storage Tanks (UST), including historic USTs	Site and Adjacent	No	0	0
CEPA – Spills, Leaks, Investigations & Cleanup Cost Recovery Listing (SLIC)	0.5 Mile	No	0	2
State institutional control/engineering control registries	Site	No	N/A	0
Local and/or Tribal databases	Up To 1.0 Mile	No	0	0
Drycleaners	0.25 Mile	No	0	0
Other databases	Up to 1.0 Mile	No	0	2
Unmappable facilities	Up to 1.0 Mile	No	0	1

N/A – Not Applicable

6.2 Discussion of Regulatory Records

6.2.1 National Priority List

The National Priority List (NPL) is the EPA's list of confirmed or proposed Superfund sites. Our review of this data includes sites which have been delisted from the NPL. The NPL is searched for a 1.0-mile distance.

The Site does not appear on the NPL. There are no facilities on the NPL within 1.0-mile of the Site.

6.2.2 Superfund Enterprise Management System

The Superfund Enterprise Management System (SEMS, formerly CERCLIS) is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release

of hazardous substances. Our review of SEMS sites includes archive (no further remedial action planned) facilities. The SEMS list is searched for a 0.5-mile distance.

The Site does not appear on the SEMS list. There are no facilities on the SEMS list within 0.5-mile of the Site.

6.2.3 RESOURCE CONSERVATION AND RECOVERY ACT

The Resource Conservation and Recovery Act compile selective information on facilities which generate, transport, store, treat and or dispose of hazardous waste. RCRA facilities can be listed on one of three databases:

- *Corrective Action Facilities (CORRACTS)* are facilities undergoing corrective action. A corrective action order is issued pursuant to RCRA Section 3008(h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. The CORRACTS list is searched for a 1.0-mile distance.

  The Site does not appear on the CORRACTS list. There are no facilities on the CORRACTS list within 1.0-mile of the Site.

- *Transportation, Storage, and Disposal Facilities (TSD)* includes facilities that transport, store or dispose of hazardous waste and are not listed on the RCRA Generators list. The TSD is searched for a 0.5-mile distance.

  The Site does not appear on the RCRA TSD list. There are no facilities on the RCRA TSD list within 0.5-mile of the Site.

- *Generators List* identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste. The RCRA generators list is searched for the Site and adjacent properties.

  The Site does not appear on the RCRA Generators list. One (1) of the adjacent properties appears on the RCRA generators list. The facility is listed on the RCRA Non-Generators database. The facility is listed as Michael C. Maksim DDS, addressed as 630 South Melrose Drive. The facility is located approximately 0.028 mile south of the Site. The facility description is listed "offices of dentists" and no violations are listed.

Due to the nature of the facility listing and lack of known violations, it is our opinion that this facility does not represent a recognized environmental condition or environmental concern to the Site.

6.2.4 EMERGENCY RESPONSE NOTIFICATION SYSTEM

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil or hazardous substances. The ERNS list is searched for the Site. The Site does not appear on the ERNS list.

6.2.5 FEDERAL INSTITUTIONAL CONTROL/ENGINEERING CONTROL REGISTRIES

The EPA maintains three (3) databases that list sites that have institutional and/or engineering controls in place as part of their operations. These databases are searched for the Site.

The Site does not appear on these databases.

6.2.6 STATE RESPONSE SITES

The State Response Sites (RESPONSE) records are the state equivalent to the federal National Priorities List (NPL) database. The RESPONSE is searched for a 1.0-mile distance.

The Site does not appear on the on the RESPONSE. There are no RESPONSE facilities listed within a 1.0-mile distance of the Site.

6.2.7 ENVIROSTOR DATABASE

The EnviroStor Database (EnviroStor, formerly CALSITES) records are the state equivalent to the federal SEMS database. EnviroStor is searched for a 0.5-mile distance.

The Site does not appear on the EnviroStor database.

There is one (1) EnviroStor facility within 0.5 mile of the Site. The facility is listed and addressed as 325 South Melrose Drive. The facility is located approximately 0.245 mile north-northwest of the Site. The database name is listed as "Vista Detention Facility", the site type is listed as "voluntary cleanup" and the status is "active" as of May 29, 2020. The past use is described as "firing range-small arms" with the contaminants of concern listed as "lead, copper and compounds".

Due to the nature of the facility listing, facility status, and distance from the Site, it is our opinion that this facility does not represent a recognized environmental condition or environmental concern to the Site.

6.2.8 California Hazardous Material Incident Report System

The California Hazardous Material Incident Report Systems (CHMIRS) is a state database used to collect information on reported hazardous materials incidents (accidental leaks and spills). The CHMIRS list is searched for a 0.25-mile distance.

The Site does not appear on the CHMIRS list. There are no CHMIRS facilities located within 0.25 mile of the Site.

6.2.9 Solid Waste Facilities List

The Solid Waste Fill/Landfill (SWF/LF), Waste Management Unit Database System (WMUDS)/Solid Waste Assessment Test (SWAT), and Solid Waste Recycling Facilities (SWRCY) databases includes information pertaining to closed and open solid waste facilities operating in the state of California. The SWF/LF, WMUDS/SWAT and SWRCY databases are searched for a 0.5-mile distance.

The Site does not appear on the SWF/LF, WMUDS/SWAT or SWRCY lists. There are no facilities on the SWF/LF or WMUDS/SWAT lists within 0.5-mile of the subject Site.

There is one (1) facility listed on the SWRCY database list searched within 0.5-mile of the subject Site. The facility is described as Food 4 Less #300, addressed as 500 Hacienda Drive. The facility is located 0.337 mile north-northeast of the Site. There are relatively minor housekeeping violations listed. Due to the nature of the facility listing and distances from the Site, it is our opinion that this facility does not represent a recognized environmental condition or environmental concern to the Site.

6.2.10 Leaking Underground Storage Tanks List

The California Leaking Underground Storage Tanks (LUST) list is a compilation of petroleum storage tank sites that have reported a release. The LUST list is searched for a 0.5-mile distance.

The Site did not appear on the LUST list.

There are three (3) LUST facilities within 0.5 mile of the Site. The first facility is listed as Vista Regional Center, addressed as 325 South Melrose Drive. The facility is located approximately 0.245 mile north-northwest of the Site. The status is listed as "completed-case closed" dated November 6, 2001.

The second facility is listed as Breeze Hill Ranch Company, addressed as 333 South Melrose Drive. The facility is located 0.295 mile north of the Site. The status is listed as "completed-case closed" dated December 15, 2014.

The third facility is listed as Melrose Valero, addressed as 210 South Melrose Drive. The facility is located approximately 0.379 mile north of the Site. The status is listed as "completed-case closed" dated October 29, 2013.

Due to the nature of their facility listings, facility status, and distances from the Site, it is our opinion that these facilities do not represent a recognized environmental condition or environmental concern to the Site.

6.2.11 Underground Storage Tanks List

The California Underground Storage Tank (UST) list is a compilation of petroleum storage tank sites that are registered with the state of California. The UST list is searched for the Site and adjacent properties.

The Site did not appear on the UST list[AS1].

The Site did not appear on the HIST UST list. None of the adjacent properties appear on the HIST UST list.

6.2.12 Spills, Leaks, Investigation and Cleanup Cost Recovery Listing (SLIC)

The SLIC database is compiled by the CEPA California Regional Water Quality Control Board, Santa Ana Region. It is designed to protect and restore water quality from spills, leaks, and similar discharges. The SLIC is searched for a 0.5-mile distance.

The Site does not appear on the SLIC. There are two (2) SLIC facilities listed within a 0.5-mile distance of the Site.

Both facilities are addressed as 325 South Melrose Drive and were previously discussed in Section 6.2.10. Both of the facility status' are listed as "completed-case closed". Due to the nature of their facility listings, facility status, and distances from the Site, it is our opinion that these facilities do not represent a recognized environmental condition or environmental concern to the Site.

6.2.13 State Institutional Control/Engineering Control Registries

The State of California maintains institutional and engineering control databases or registries. This lists sites with engineering or institutional controls in place. Institutional controls include administrative measures intended to prevent exposure to contaminants remaining on site. Engineering controls include various forms of caps, building foundations, liners, and treatment methods. The State Institutional Control/Engineering Control Registries is searched for the Site.

The subject Site does not appear on the State Institutional Control/Engineering Control Registries.

6.2.14 Tribal Databases

Tribal governments are under the jurisdiction of the EPA for environmental concerns. Currently, the EPA Region 9 publishes LUST and UST information for tribes in Arizona, California, Hawaii, Nevada, and the Pacific Territories. The LUST database is searched for 0.5 mile, and the UST database is searched for 0.25 mile.

The Site does not appear on the Tribal LUST or UST databases. No facilities were identified on the Tribal LUST or UST databases within 0.5 mile of the Site.

6.2.15 Other Databases

EDR compiles information from multiple federal, state, local, and proprietary databases. Most are secondary or tertiary or redundant. Facilities compiled on these other databases are evaluated based on the severity of the listing, distance and location.

There are two facilities listed on the California Environmental Regulated Site Portal (CERS HAZ WASTE) database. The first facility is listed as Vista Dental Group, addressed as 435 South Melrose Drive, Suite 105. The facility is located approximately 0.114 mile northwest of the Site. There are no violations listed.

The second facility is listed as CVS Pharmacy #6368, addressed as 635 South Melrose Drive. The facility is located approximately 0.047 mile west-southwest of the Site. There are several relatively minor housekeeping violations listed.

Due to the nature of the facility listing, facility status, and lack documented violations it is our opinion that this facility does not represent a recognized environmental condition or environmental concern to the Site[AS2].

6.2.16 Dry Cleaners

The DRYCLEANERS list is compiled and provided by EDR. The DRYCLEANER database is searched for a 0.25-mile distance.

The Site does not appear on the DRYCLEANER list. No facilities are listed within 0.25-mile of the Site.

6.2.17 Unmappable Facilities

GeoTek reviewed the listing of "orphan" or unmappable facilities in the database report. There is one (1) unmappable facilities listed on the LUST database.

The facility is described as Exxon Service Station 7-3270, addressed as 210 South Melrose Street. No additional pertinent information is provided. GeoTracker has a facility status listed as "completed-case closed" dated October 29, 2013. Additional reporting for this facility has been included in Appendix B. Due to the nature of the facility listing, facility status, and distance from the Site, it is our opinion that this facility does not represent a recognized environmental condition or environmental concern to the Site.

6.3 Local Regulatory Agency Records

GeoTek contacted the City of Vista Fire and Sheriff's Departments regarding underground or above ground storage tanks, hazardous material permits or business plans, emergency responses, spills, inspections, or other information of an environmental or hazardous nature.

Neither of these agencies have provided any information for the Site at the time of this report.

7.0 VAPOR ENCROACHMENT SCREEN

The purpose of a Vapor Encroachment Screen (VES) is to identify, to the extent feasible, if a Vapor Encroachment Condition (VEC) exists at the Site.

A Vapor Encroachment Screen Report was generated for the Site and Site area utilizing EDR's Vapor Encroachment Worksheet (see Appendix D). It was determined that there are no historical dry cleaners or auto stations within 600 feet and/or up gradient from the Site.

It is our opinion that a VEC in not likely to exist at the subject Site. The Vapor Encroachment Screen report is included in Appendix D.

8.0 SITE AND SURROUNDING AREA HISTORY

In order to construct the history of the Site and the surrounding area, GEOTEK reviewed reasonably ascertainable public documents, including aerial photographs, topographic maps, building records, city directories, Environmental Liens and AULs, fire insurance maps, and county assessor history records.

8.1 HISTORICAL SITE USAGE

8.1.1 AERIAL PHOTOGRAPH REVIEW

GEOTEK reviewed aerial photographs dated 1939, 1946, 1953, 1964, 1967, 1970, 1979, 1985, 1989, 1990, 1994, 1996, 1997, 2002, 2005, 2009, 2012, 2016, 2018 and 2021 (see Appendix B).

Based on readily available historic information, the Site appears to have vacant land from at least 1939 until at least 1946.

The existing single-family residence on the southeast portion of the Site is first visible in the 1953 aerial photograph.

The existing religion facility on the west portion of the Site is first visible in the 1964 aerial photograph.

There are no significant changes in the 1967, 1970 and 1979 aerial photographs.

The paved parking area associated with the religious facility is first visible in the 1985 aerial photograph.

There are no significant changes to the Site from 1985 to the present.

A 2021 aerial photograph is utilized for Figure 2 (Appendix A).

8.1.2 TOPOGRAPHIC MAP REVIEW

GEOTEK reviewed the Escondido Quadrangles (15-minute series), dated 1893, 1901 and 1947; the Oceanside Quadrangle (15-minute series) dated 1898, 1901 and 1947; the San Luis Rey Quadrangles (7.5 minute series) dated 1948, 1949, 1968, 1975, 1996, 1997 and 2012; and the San

Marcos Quadrangles (7.5 minute series) dated 1948, 1949, 1968, 1983, 1996, 1997 and 2012 (see Appendix B).

The Site appears to be vacant land on the 1893, 1898, 1901, 1947, 1948 and 1949 topographic map sheets.

The religious facility structure and the single-family residence are first visible on the 1968 topographic map sheet.

There are no significant changes on the 1975 topographic map sheet.

The Site is unmapped on the 1983 topographic map sheet.

The single-family residence is not mapped on the 1996 and 1997 topographic map sheets.

The 2012 maps show little detail other than streets in the vicinity. A 2012 topographic map sheet is utilized for Figure 1 (Appendix A).

8.1.3 Building Department Records

GeoTek reviewed the EDR – Building Permit Report which searched for permitting, projects or properties on the subject Site, and included in Appendix B. There are three building permits associated with the religious facility on the Site. The building permits are pertaining to gas line repairs, commercial signage installation, and re-roofing the religious facility. These permits do not appear to represent an environmental concern to the Site.

8.1.4 City Directory Review

GeoTek reviewed The EDR – City Directory Image Report, as obtained from and provided by EDR, and included in Appendix B. The City Directory Image report provides information on the Site address and numerous nearby addresses. The Site does not have an address; however, South Melrose Drive and Matagual Drive did appear for years 1971 through 2017. These listings are residential and commercial in nature and do not appear to present an obvious environmental concern to the Site.

8.1.5 Sanborn Map Review

Sanborn Fire Insurance Maps for the parcel were requested from EDR-Sanborn, which owns and maintains the largest and most complete collection of the maps. Source sheets were not available for the Site. The Sanborn Map Report is included in Appendix B.

8.1.6 Chain of Title

GeoTek has not received, nor was authorized to obtain Chain-of-Title documents for the Site.

8.2 Historical Immediately Surrounding Property Usage

8.2.1 Aerial Photograph Review

GeoTek reviewed aerial photographs dated 1939, 1946, 1953, 1964, 1967, 1970, 1979, 1985, 1989, 1990, 1994, 1996, 1997, 2002, 2005, 2009, 2012, 2016, 2018 and 2021 (see Appendix B).

The surrounding areas generally appear to vacant land with some agricultural use and sporadic single family residences from at least 1939 until at least 1953.

Increased expansion of residential development in the surrounding areas is visible from 1964 to 1985.

A multi-family residential community is first visible to the west of the Site in the 1989 aerial photograph.

There are no significant changes in the surrounding areas in the 1990 and 1994 aerial photographs.

The western portion of the surrounding areas in unmapped on the 1996 aerial photograph. No significant changes are apparent where photographed.

Commercial development is visible to the west and northwest of the Site from the 1997 aerial photograph to the 2016 aerial photograph.

There are no significant changes visible in the 2012, 2016, 2018 and 2021 aerial photographs.

A 2021 aerial photograph is utilized for Figure 2 (Appendix A).

8.2.2 TOPOGRAPHIC MAP REVIEW

GEOTEK reviewed the Escondido Quadrangles (15-minute series), dated 1893, 1901 and 1947; the Oceanside Quadrangle (15-minute series) dated 1898, 1901 and 1947; the San Luis Rey Quadrangles (7.5 minute series) dated 1948, 1949, 1968, 1975, 1996, 1997 and 2012; and the San Marcos Quadrangles (7.5 minute series) dated 1948, 1949, 1968, 1983, 1996, 1997 and 2012 (see Appendix B).

The surrounding area appears to generally be vacant land with sporadic residences on the 1893, 1898 (partially unmapped) and 1901 topographic map sheets.

Increased residential development is visible to the southeast, east and northeast of the Site on the 1947 topographic map sheet.

Increased residential development is visible in the surround areas on the 1947 topographic map sheet.

No significant changes are visible in the surrounding areas on the 1949 topographic map sheet.

Increased development is visible in the surround areas on the 1968 topographic map sheet. Additionally, CA-78 is first visible on the 1968 topographic map sheet.

The eastern portion of the 1975 topographic map sheet is unmapped.

The western portion of the 1983 topographic map sheet is unmapped.

Increased roadway expansion and commercial development are visible on the 1996 and 1997 topographic map sheets.

The 2012 maps show little detail other than streets in the vicinity. A 2012 topographic map sheet is utilized for Figure 1 (Appendix A).

8.2.3 CITY DIRECTORIES

GEOTEK reviewed The EDR – City Directory Image Report, as obtained from and provided by EDR, and included in Appendix B. The City Directory Image report provides information on the Site address and numerous nearby addresses. The nearby streets South Melrose Drive and Matagual Drive did appear for years 1971 through 2017. These listings are residential and

commercial in nature and do not appear to present an obvious environmental concern to the Site.

8.2.4 SANBORN MAP REVIEW

Sanborn Maps for the Site were requested from EDR-Sanborn, which owns and maintains the largest and most complete collection of the maps. According to EDR, source sheets were not available for the property; therefore, it is not likely that source sheets would be available for the adjoining properties. The Sanborn Map Report is included in Appendix B.

8.3 HISTORICAL USE SUMMARY

Based on readily available historic information, the Site appears to have vacant land from at least 1939 until at least 1946. The existing single-family residence on the southeast portion of the Site is first visible in the 1953 aerial photograph. The existing religion facility on the west portion of the Site is first visible in the 1964 aerial photograph. There are no significant changes in the 1967, 1970 and 1979 aerial photographs. The paved parking area associated with the religious facility is first visible in the 1985 aerial photograph. There are no significant changes to the Site from 1985 to the present. The surrounding areas generally appear to vacant land with some agricultural use and sporadic single family residences from at least 1939 until at least 1953. Increased expansion of residential development in the surrounding areas is visible from 1964 to 1985. Commercial development is visible to the west and northwest of the Site from the 2002 aerial photograph to the 2016 aerial photograph.

Data gaps exist from 1893 to 1898, 1901 to 1939, 1939 to 1946, 1953 to 1964 and 1997 to 2002 to the limited records which are reasonably ascertainable in the local area. However, it is our opinion that additional historic information, if it were to become available, is not likely to change the conclusions or recommendations of this assessment.

9.0 SIGNIFICANT DATA GAPS

No significant data gaps were discovered while performing this Phase I Environmental Site Assessment. Therefore, it is our opinion that sufficient information was obtained to identify current Site conditions and past Site usage.

Minor data gaps include:

- Data gaps in historic records exist from 1893 to 1898, 1901 to 1939, 1939 to 1946, 1953 to 1964 and 1997 to 2002;

- GEOTEK has not received nor reviewed Chain-of-Title documents for the Site.

It is our opinion that additional information, if it were to become available, is not likely to change the conclusions or recommendations of this assessment.

10.0 CONCLUSIONS AND RECOMMENDATIONS

GEOTEK has performed a Phase I Environmental Site Assessment (ESA) for the subject Site in substantial conformance with the scope and limitations of ASTM E 1527-13 and GEOTEK Proposal No. P-0601521-SD, dated June 18, 2021. Any exceptions to, or deletions from, this practice are described in the appropriate sections of this report.

This Phase I Environmental Site Assessment has not revealed evidence of a recognized environmental condition in connection with the subject Site. No additional investigation is recommended at this time.

Please be aware that prior to demolition of any of the existing Site structures, federal and state regulations require asbestos-containing materials (ACM) and lead-based paint (LBP) surveys be performed.

11.0 CERTIFICATIONS

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. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

The qualifications of the Project Team are included in Appendix F.

We appreciate this opportunity to be of service. If you have any questions, or if we can be of further service, please contact us at (951) 710-1160.

Sincerely,
GEOTEK, INC.

REGISTERED GEOLOGIST
EDWARD H. LaMONT
No. 1892
Exp.
Certified Engineering Geologist
STATE OF CALIFORNIA

Edward H. LaMont
Principal Geologist, CEG 1892
Exp. 07/31/2022

J. Michael Batten, CEM, REPA
Environmental Services Manager
Registered Environmental Property
Assessor No. 113162
Expires 06/15/2022

PROFESSIONAL GEOLOGIST
KYLE R. MCHARGUE
9790
STATE OF CALIFORNIA

Kyle R. McHargue
Project Geologist, PG 9790
Exp. 02/28/2022

V:\Projects\Projects 3000 to 3999\Projects 3700 to 3749\3706-SD TTLC Management, Inc. an Arizona Corporation S Melrose Dr & Matagual Dr\ENV\3706-SD Phase I Environmental Site Assessment South Melrose Drive Vista ESA.docx

12.0 REFERENCES

CALIFORNIA, STATE OF

- Kennedy, Michael P. and Tan, Siang S., 2007, "Geologic Map of the Oceanside 30' x 60' Quadrangle, California, Regional Geologic Map Series, Scale 1:100,000.
- Water Resources, Department of Hydrologic Data

ENVIRONMENTAL DATA RESOURCES, INC.

- Aerial Photo Decade Package, Inquiry No. 6558122.8, dated June 29, 2021
- Certified Sanborn Map Report, Inquiry No. 6558122.3, dated June 29, 2021
- City Directory Image Report, Inquiry No. 6558122.5, dated July 1, 2021
- Historical Topo Map Report, Inquiry No. 6558122.4, dated June 29, 2021
- Building Permit Report, Inquiry No. 6558122.8, dated June 29, 2021
- Environmental Lien and AUL Report, Inquiry No. 6558122.4, dated June 30, 2021
- Tax Map Report, Inquiry No. 6558122.6, dated June 29, 2021
- Radius Map Report, Inquiry No. 6558122.2s, dated June 29, 2021
- Vapor Encroachment Screen Report, Inquiry No. 6558122.2s, dated July 15, 2021

VISTA, CITY OF

- Fire Department, Records Inquiry
- Sheriff Department, Records Inquiry

SAN DIEGO, COUNTY OF

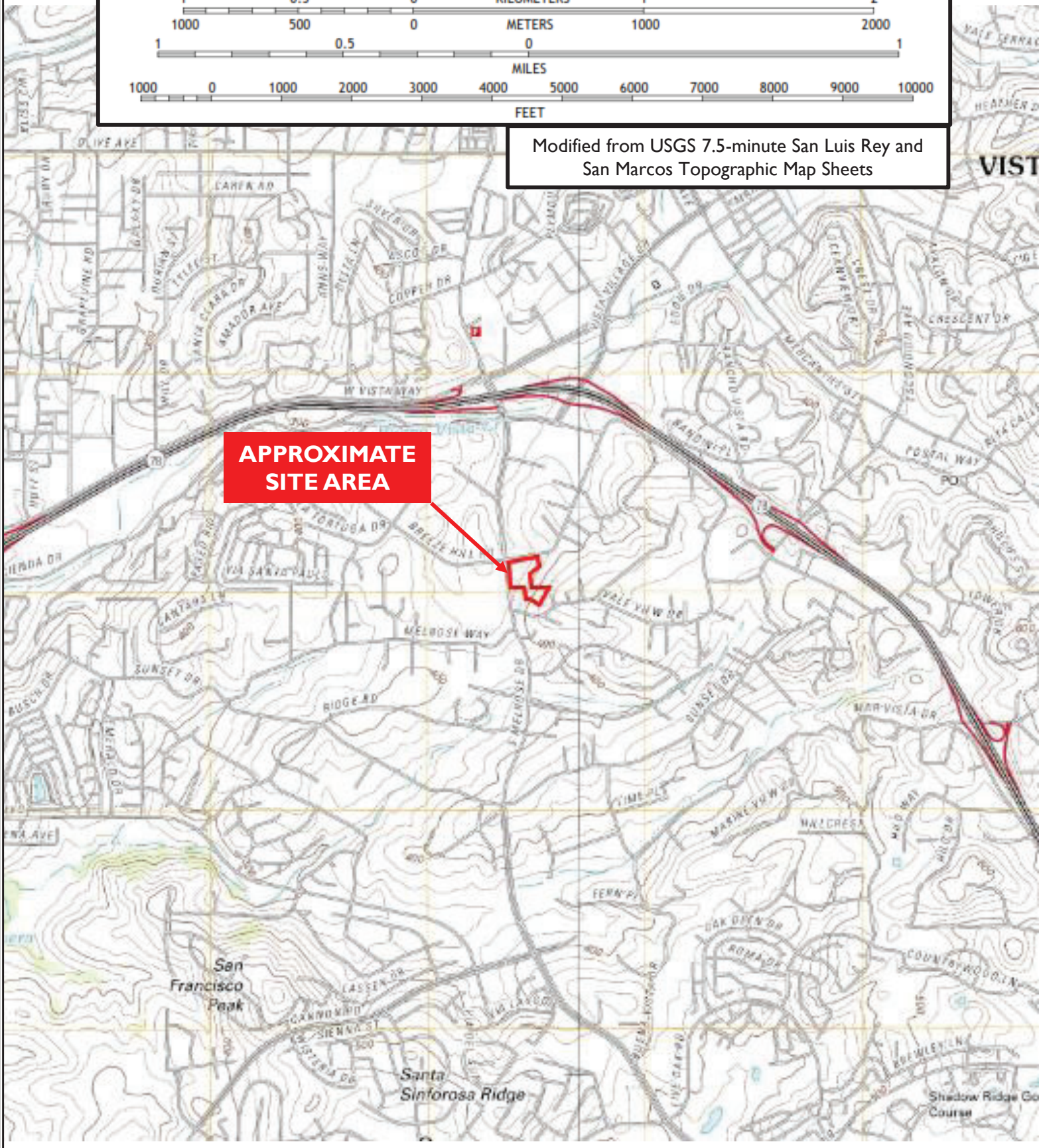
- Assessor's Office, Records Inquiry

U.S. GOVERNMENT

- Drug Enforcement Agency, Records inquiry (*http://www.dea.gov/clan-lab*)
- Federal Emergency Management Agency (FEMA)

APPENDIX A

FIGURES



TTLC Management Inc. an Arizona Corporation
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

GeoTek Project No. 3706-SD

NORTH

Figure 1

Site Location and General Topography Map

GEOTEK

Legend

Locations are approximate

21 -Site Photograph

200 FEET

SCALE

NORTH

TTLC Management Inc. an Arizona Corporation
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

GeoTek Project No. 3706-SD

GEOTEK

Figure 2

General Site Layout Map

APPENDIX B

SUPPORTING DOCUMENTS

APNs 166-280-60, -61 and -18

S Melrose Drive/Matagual Drive

Vista, CA 92081

Inquiry Number: 6558122.11

June 29, 2021

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

06/29/21

Site Name:

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Driv
Vista, CA 92081
EDR Inquiry # 6558122.11

Client Name:

Geotek
1548 North Maple Street
Corona, CA 92880
Contact: Kyle Mchargue

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1997	1"=500'	Acquisition Date: January 01, 1997	USGS/DOQQ
1996	1"=500'	Acquisition Date: January 01, 1996	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1979	1"=500'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1970	1"=500'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1967	1"=500'	Flight Date: May 07, 1967	USGS
1964	1"=500'	Flight Date: April 09, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1946	1"=500'	Flight Date: December 30, 1946	USGS
1939	1"=500'	Flight Date: April 16, 1939	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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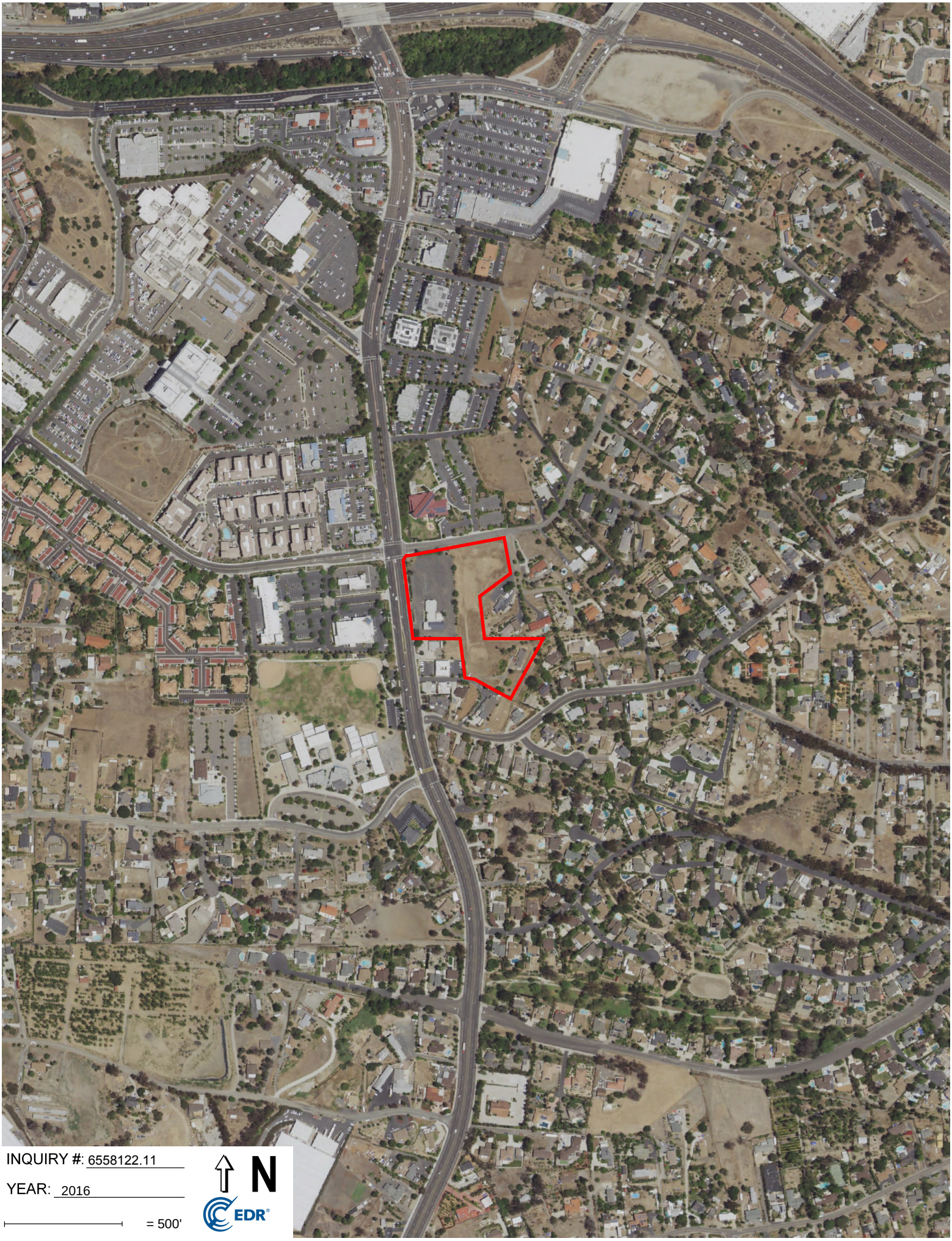

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YEAR: 2016

= 500'

N

EDR

INQUIRY #: 6558122.11
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 6558122.11
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6558122.11
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 6558122.11
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 6558122.11

YEAR: 1997

= 500'

N

EDR

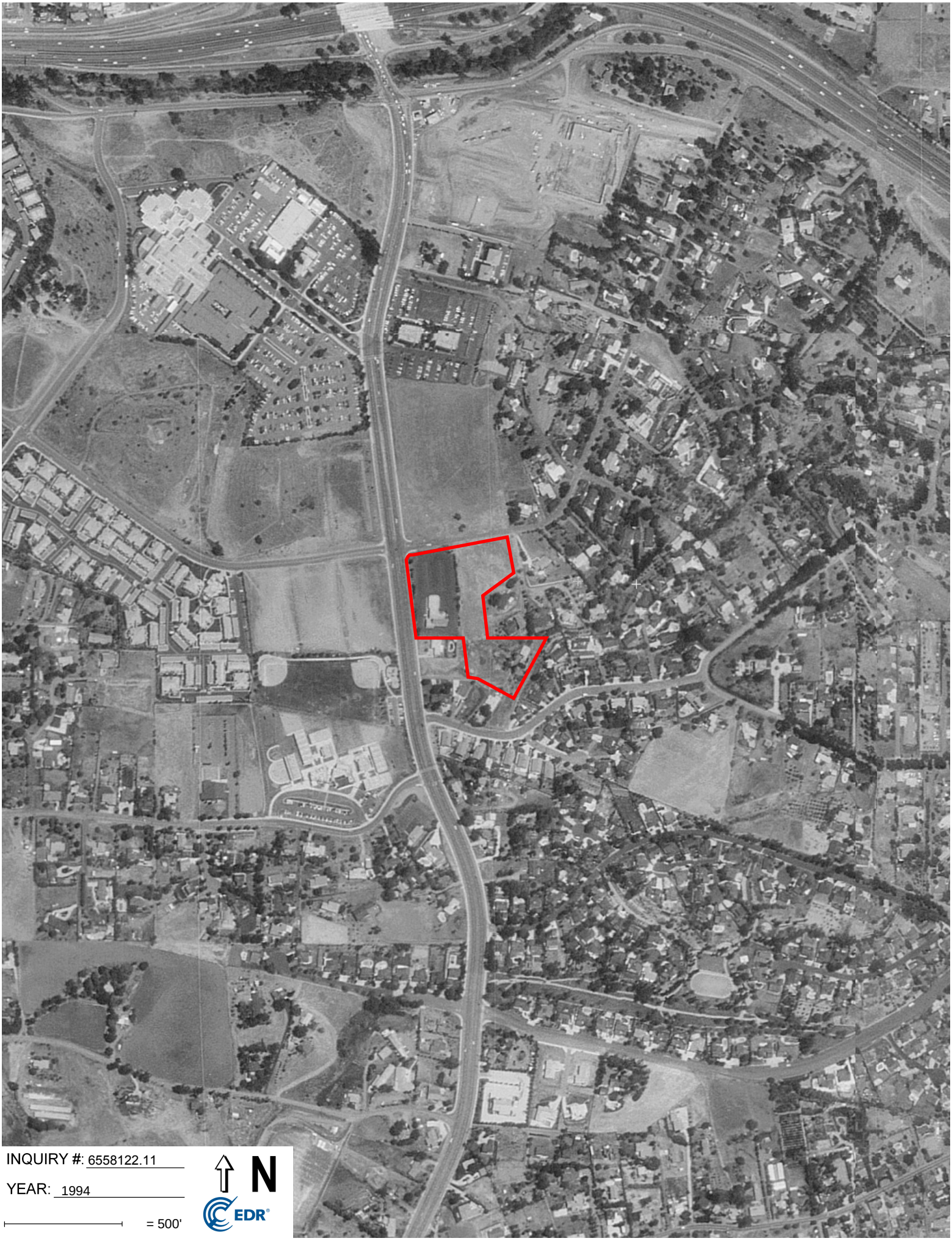
INQUIRY #: 6558122.11

YEAR: 1996

= 500'

N

EDR



INQUIRY #: 6558122.11

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 6558122.11
YEAR: 1990
= 500'
N
EDR

INQUIRY #: 6558122.11
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 6558122.11

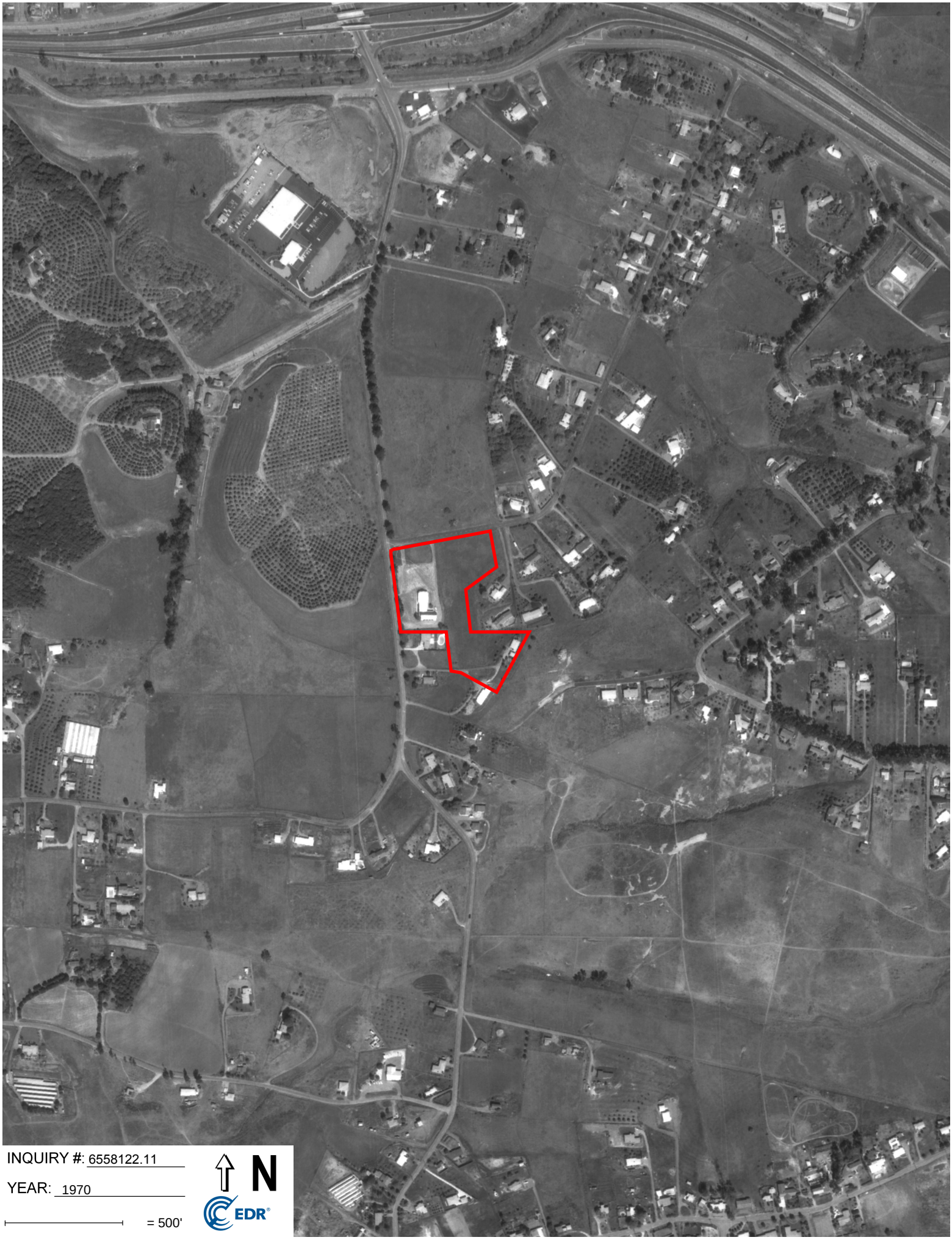
YEAR: 1985

= 500'

N

EDR

INQUIRY #: 6558122.11
YEAR: 1979
= 500'
N
EDR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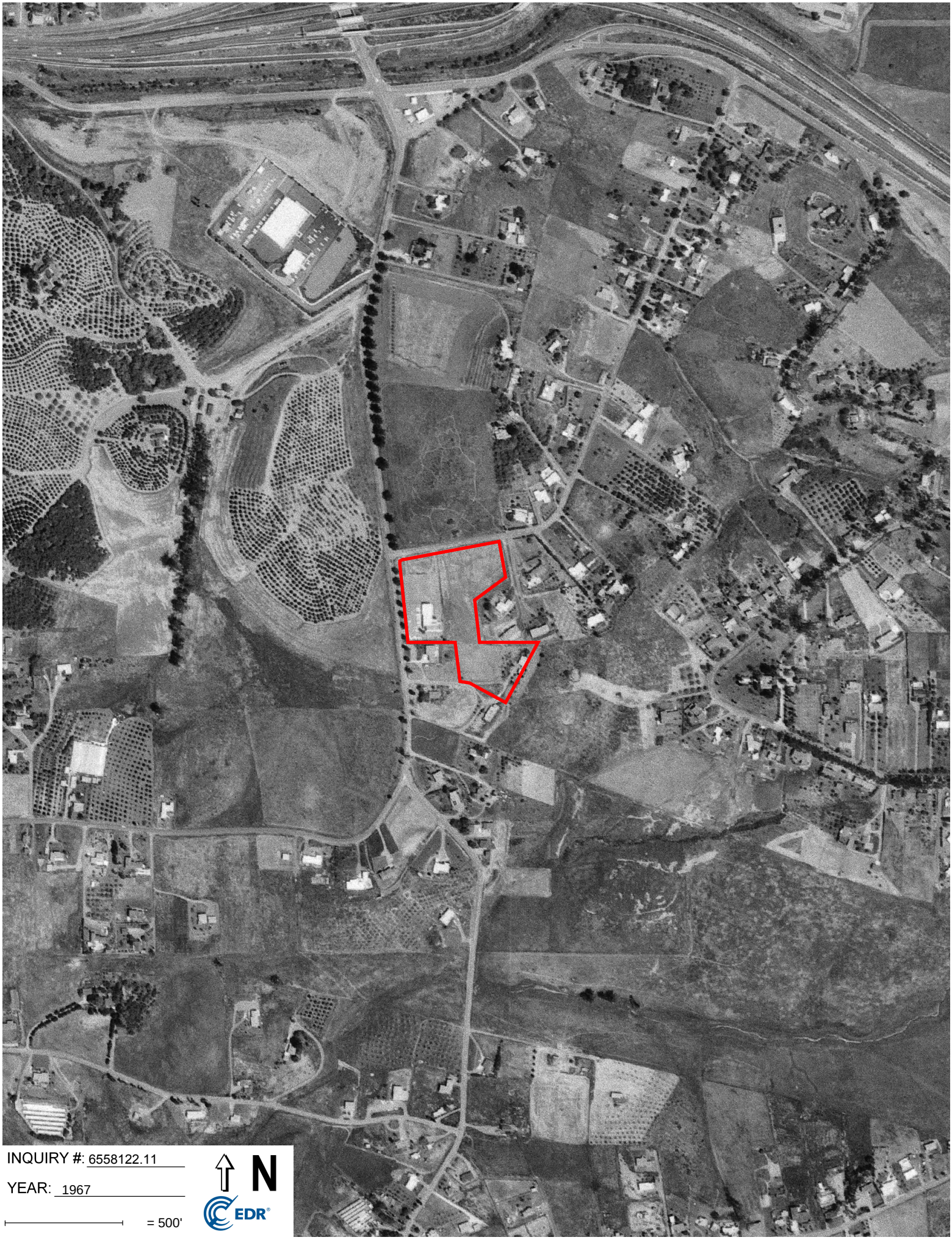
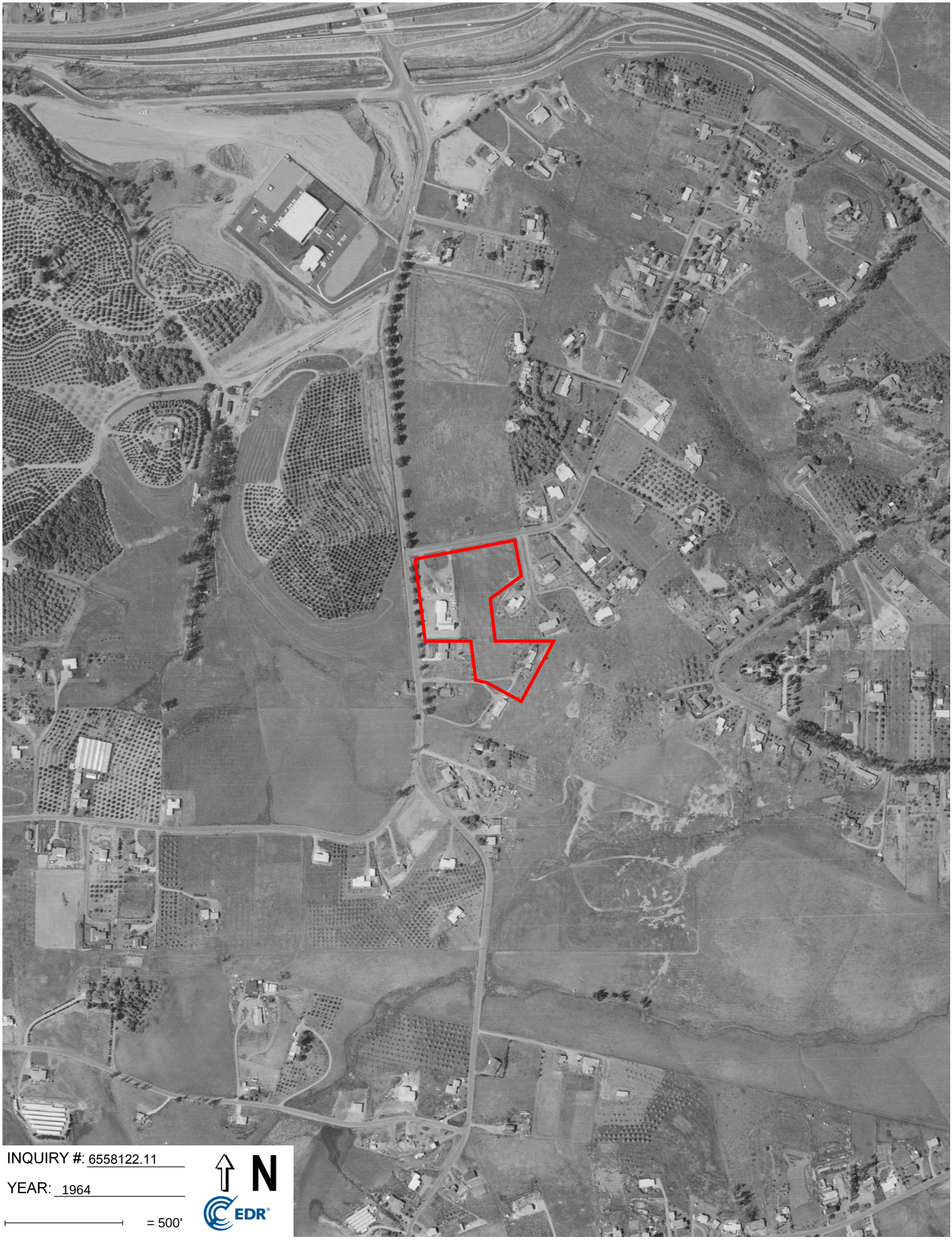
EDR


INQUIRY #: 6558122.11
YEAR: 1967
= 500'
N
EDR



INQUIRY #: 6558122.11

YEAR: 1964

= 500'

N

EDR

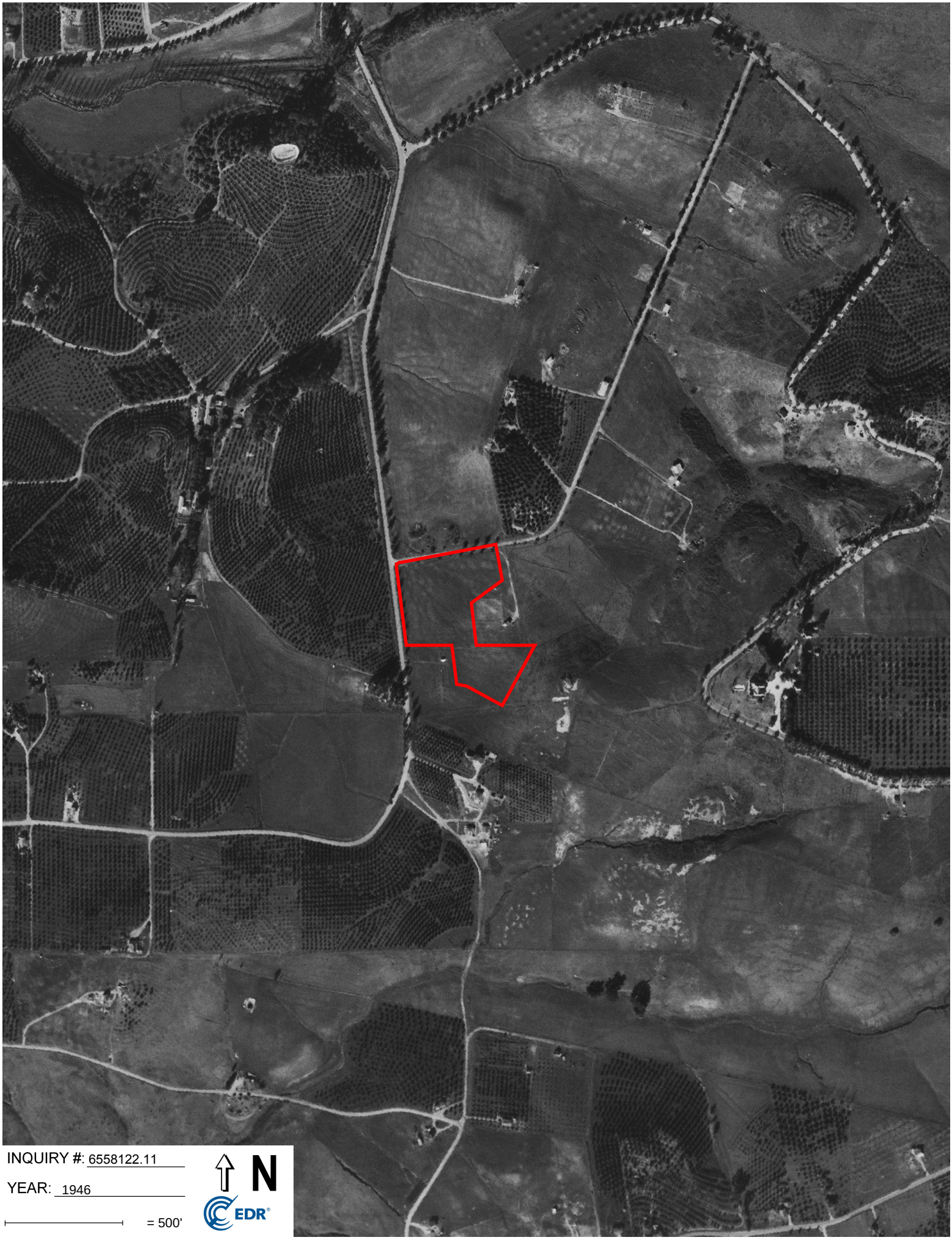
INQUIRY #: 6558122.11

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 6558122.11

YEAR: 1946

= 500'

N

EDR

INQUIRY #: 6558122.11

YEAR: 1939

= 500'

N

EDR

560 S MELROSE DR, VISTA, CA 92081

SHOW MAP ()

Map ID: 0 EDR ID: 229893542
Direction: - EPA ID: -
Distance (mi.): 0.016
Distance (ft.): 83
Relative: -
Actual: 0 FT ASL

PermitID_Start: 597435973|419
PermitDate: Nov 12 1992 12:00AM
PermitType: PLUMBING PERMIT
Description: GAS LINE REPAIR
PermitTypeDescription: Not reported
WorkClass: Not reported
Proposeduse: Not reported
PermitNum: B92-1258
PermitStatus: FINAL
Valuation: 0.00
ContractorCompanyName: Not reported
ContractorName: FELKINS PLUMBING COMPANY INC.
PermitID_End: 597435973|419
PermitID_Start: 597435974|419
PermitDate: Jun 27 2003 12:00AM
PermitType: SIGN PERMIT
Description: DOUBLE FACED, NON-ILLUMINATED MONUMENT SIGN
PermitTypeDescription: Not reported
WorkClass: COMMERCIAL SIGN
Proposeduse: Not reported
PermitNum: B03-0990
PermitStatus: FINAL
Valuation: 1717.75
ContractorCompanyName: Not reported
ContractorName: ROUSE SIGN AND GRAPHICS
PermitID_End: 597435974|419
PermitID_Start: 597435975|419
PermitDate: Aug 14 2006 12:00AM
PermitType: BUILDING PERMIT
Description: RE-ROOF W/COMP SHINGLES (SAME MATERIAL & COLOR AS EXISTING)
PermitTypeDescription: Not reported
WorkClass: REROOF
Proposeduse: Not reported
PermitNum: B06-1022
PermitStatus: FINAL
Valuation: 5280.00
ContractorCompanyName: Not reported
ContractorName: PATRIOT ROOFING
PermitID_End: 597435975|419

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.8
June 29, 2021

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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About This Report

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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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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILDFAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Geotek on Jun 29, 2021.

TARGET PROPERTY

S Melrose Drive/Matagual Drive
Vista, CA 92081

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Vista

Year	*Source*	*TP*	*Adjoining*
2021	City of Vista, Building Division		X
2020	City of Vista, Building Division		X
2019	City of Vista, Building Division		X
2018	City of Vista, Building Division		X
2017	City of Vista, Building Division		X
2016	City of Vista, Building Division		X
2015	City of Vista, Building Division		X
2014	City of Vista, Building Division		X
2013	City of Vista, Building Division		X
2012	City of Vista, Building Division		
2011	City of Vista, Building Division		X
2010	City of Vista, Building Division		X
2009	City of Vista, Building Division		X
2008	City of Vista, Building Division		X
2007	City of Vista, Building Division		X
2006	City of Vista, Building Division		X
2005	City of Vista, Building Division		X
2004	City of Vista, Building Division		X
2003	City of Vista, Building Division		X
2002	City of Vista, Building Division		X
2001	City of Vista, Building Division		X
2000	City of Vista, Building Division		X
1999	City of Vista, Building Division		X
1998	City of Vista, Building Division		X
1997	City of Vista, Building Division		X
1996	City of Vista, Building Division		X
1995	City of Vista, Building Division		X
1994	City of Vista, Building Division		X

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	***Source***	***TP***	***Adjoining***
1993	City of Vista, Building Division		X
1992	City of Vista, Building Division		X
1991	City of Vista, Building Division		
1990	City of Vista, Building Division		
1989	City of Vista, Building Division		
1988	City of Vista, Building Division		
1987	City of Vista, Building Division		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Vista
Years: 1987-2021
Source: City of Vista, Building Division, VISTA, CA
Phone: 760-726-1340 ext. 12

Name: Oceanside
Years: 1990-2021
Source: City of Oceanside, Development Services, OCEANSIDE, CA
Phone: (760) 435-3950

Name: San Diego County
Years: 1971-2021
Source: San Diego County, Development Services, VISTA, CA
Phone: (619) 446-5000

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

S Melrose Drive/Matagual Drive
Vista, CA 92081

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BREEZE HILL RD

701 BREEZE HILL RD

Date:	**3/24/2015**
Permit Type:	
Description:	**CARPORT - 2 SPACES**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	B14-1437
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AVALONBAY COMMUNITIES, INC.

Date:	**3/24/2015**
Permit Type:	
Description:	**CARPORT - 2 SPACES**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	B14-1438
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AVALONBAY COMMUNITIES, INC.

ADJOINING PROPERTY FINDINGS

Date: **3/24/2015**
Permit Type:
Description: **CARPORT - 2 SPACES (ADA)**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1439
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

Date: **3/24/2015**
Permit Type:
Description: **CARPORT - 4 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1440
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

Date: **3/24/2015**
Permit Type:
Description: **CAPORT - 4 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1441
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

ADJOINING PROPERTY FINDINGS

Date: **3/24/2015**
Permit Type:
Description: **CARPORT - 4 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1442
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

Date: **3/24/2015**
Permit Type:
Description: **CAPRORT - 5 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1443
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

Date: **3/24/2015**
Permit Type:
Description: **CARPORT - 6 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1444
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

ADJOINING PROPERTY FINDINGS

Date: **3/24/2015**
Permit Type:
Description: **CARPORT - 8 SPACES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1445
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AVALONBAY COMMUNITIES, INC.

Date: **10/3/2014**
Permit Type:
Description: **1,560 SF SWIMMING POOL, 80 SF SPA & SWIMMING POOL/SPA EQUIPMENT FOR APARTMENT COMPLEX**

Permit Description: **BLDG COMBINATION**
Work Class: MULTI-FAM POOL
Proposed Use:
Permit Number: B14-1369
Status: ISSUED
Valuation: $45,000.00
Contractor Company:
Contractor Name:

Date: **7/31/2014**
Permit Type:
Description: **SPRINKLER SYSTEM**

Permit Description: **FIRE SYSTEMS**
Work Class:
Proposed Use:
Permit Number: F14-0109
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**7/22/2014**
Permit Type:	
Description:	**ANCILLARY STRUCTURES - THREE 282 SF METAL SHADE CABANAS, TWO 10 SF PILASTERS AT POOL GATE, 480 SF LOUVER FENCE, 175 SF DOUBLE-SIDED FIREPLACE, 372 SF 6' HIGH GLASS POOL ENCLOSURE, 9 SF OVERHEAD LIGHTING FRAME, 27 SF OVERHEAD LIGHTING FRAME, TWO 180 SF SHADE UMBRELLAS AND FOUR TRASH ENCLOURES**
Permit Description:	**BLDG COMBINATION**
Work Class:	OTHER
Proposed Use:	
Permit Number:	B14-0957
Status:	ISSUED
Valuation:	$172,000.00
Contractor Company:	
Contractor Name:	

Date:	**7/11/2014**
Permit Type:	
Description:	**RECREATION BUILDING**
Permit Description:	**BLDG COMBINATION 071210**
Work Class:	NEW COMMERCIAL
Proposed Use:	
Permit Number:	B13-1047
Status:	ISSUED
Valuation:	$410,742.43
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **7/11/2014**
Permit Type:
Description: **POOL BUILDING**

Permit Description: **BLDG COMBINATION 071210**
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B13-1187
Status: ISSUED
Valuation: $24,083.40
Contractor Company:
Contractor Name:

Date: **6/30/2014**
Permit Type:
Description: **FOUNDATION ONLY**

Permit Description: **BUILDING PERMIT**
Work Class: OTHER
Proposed Use:
Permit Number: B14-0873
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/4/2014**
Permit Type:
Description: **2 - VEHICULAR TUBULAR ELECTRIC ENTRY GATES - (8' MAX) & TUBULAR STEEL PERIMETER FENCE**

Permit Description: **BUILDING PERMIT**
Work Class: OTHER
Proposed Use:
Permit Number: B14-0057
Status: ISSUED
Valuation: $24,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/30/2014**
Permit Type:
Description: **FOUNDATION ONLY**

Permit Description: **BUILDING PERMIT**
Work Class: OTHER
Proposed Use:
Permit Number: B14-0610
Status: ISSUED
Valuation: $45,638.00
Contractor Company:
Contractor Name:

Date: **4/21/2014**
Permit Type:
Description: **100-AMP TV METER PEDESTAL ON PRIVATE PROPERTY**

Permit Description: **ELECTRIC PERMIT**
Work Class: METER
Proposed Use:
Permit Number: B14-0471
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/18/2014**
Permit Type:
Description: **DOMESTIC WATER SERVICE**

Permit Description: **PLUMBING PERMIT**
Work Class: UTILITY LINES
Proposed Use:
Permit Number: B14-0442
Status: FINAL
Valuation: $100,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/26/2014**
Permit Type:
Description: **ALARM SYSTEM**

Permit Description: **FIRE SYSTEMS**
Work Class:
Proposed Use:
Permit Number: F14-0028
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/14/2014**
Permit Type:
Description: **FIRE UNDERGROUND SYSTEM**

Permit Description: **FIRE SYSTEMS**
Work Class:
Proposed Use:
Permit Number: F13-0114
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/12/2013**
Permit Type:
Description: **TEMPORARY POWER POLE & 1 SUB-POLE**

Permit Description: **ELECTRIC PERMIT**
Work Class: TEMP POWER POLE
Proposed Use:
Permit Number: B13-1416
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/25/2013**
Permit Type:
Description: **PRIVATE WATER & SEWER**

Permit Description: **PLUMBING PERMIT**
Work Class: UTILITY LINES
Proposed Use:
Permit Number: B13-1026
Status: PENDING
Valuation: $335,000.00
Contractor Company:
Contractor Name:

Date:
Permit Type:
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number:
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

715 BREEZE HILL RD

Date: **7/31/2014**
Permit Type:
Description: **SPRINKLER SYSTEM**

Permit Description: **FIRE SYSTEMS**
Work Class:
Proposed Use:
Permit Number: F14-0107
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/11/2014**
Permit Type:
Description: **12 UNIT APARTMENTS W/GARAGES**

Permit Description: **BLDG COMBINATION 071210**
Work Class: NEW APARTMENT
Proposed Use:
Permit Number: B13-1035
Status: ISSUED
Valuation: $1,280,685.93
Contractor Company:
Contractor Name:

Date: **5/30/2014**
Permit Type:
Description: **FOUNDATION ONLY**

Permit Description: **BUILDING PERMIT**
Work Class: OTHER
Proposed Use:
Permit Number: B14-0608
Status: ISSUED
Valuation: $142,298.00
Contractor Company:
Contractor Name:

Date: **3/26/2014**
Permit Type:
Description: **ALARM SYSTEM**

Permit Description: **FIRE SYSTEMS**
Work Class:
Proposed Use:
Permit Number: F14-0016
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

LAS PALMAS DR

743 LAS PALMAS DR

Date:	**11/6/2014**
Permit Type:	
Description:	**SOLAR PHOTVOLTAIC SYSTEM & 125 AMP ELECTRIC METER UPGRADE**
Permit Description:	**ELECTRIC PERMIT**
Work Class:	PHOTOVOLTAIC
Proposed Use:	
Permit Number:	B14-1589
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

757 LAS PALMAS DR

Date:	**8/8/2005**
Permit Type:	**FENCE PERMIT**
Description:	**NO FEE FENCE PERMIT # 231. 04/06/1990. 5' CEDAR 120' L FENCE.**
Permit Description:	
Work Class:	RESIDENTIAL FENCE
Proposed Use:	
Permit Number:	D05-0219
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**7/2/1999**
Permit Type:	**BLDG COMBINATION**
Description:	**709SF REC RM, BEDRM #5 & MASTER BEDRM WALK-IN CLOSET 2ND STORY ADDN, REMODEL WALK-IN CLOSET INTOHALLWAY. 106SF STORAGE ADDN BEHIND EXISTING GARAGE2 NEW SKYLIGHTS. REMODEL HALL 2 AREA ADJACENT TO MASTER BEDRM.**
Permit Description:	
Work Class:	ADD/ALT SINGLE FAM DWELL
Proposed Use:	
Permit Number:	B99-0267
Status:	FINAL
Valuation:	$76,592.00
Contractor Company:	
Contractor Name:	CARL BERGER CONSTRUCTION

765 LAS PALMAS DR

Date:	**2/2/2015**
Permit Type:	
Description:	**REPLACE FURNACE & ADD A.C.**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	B15-0134
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ACTION AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date: **10/3/2013**
Permit Type:
Description: **SOLAR PHOTOVOLTAIC SYSTEM & ELECTRICAL SERVICE UPGRADE**

Permit Description: **ELECTRIC PERMIT**
Work Class: PHOTOVOLTAIC
Proposed Use:
Permit Number: B13-1092
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/13/2002**
Permit Type: **BUILDING PERMIT**
Description: **REROOF FROM WOOD SHAKE TO CEDARLITE CONC TILE**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B02-2205
Status: FINAL
Valuation: $6,696.00
Contractor Company:
Contractor Name: BOB PIVA ROOFING

777 LAS PALMAS DR

Date: **1/21/2009**
Permit Type: **PLUMBING PERMIT**
Description: **REPLACE WATER HEATER**

Permit Description:
Work Class: WATER HEATER
Proposed Use:
Permit Number: B09-0059
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: ALL STAR WATER HEATERS INC.

ADJOINING PROPERTY FINDINGS

Date: **6/11/2001**
Permit Type: **BUILDING PERMIT**
Description: **METAL PATIO COVER & ENCLOSURE ICBO#5014P**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0781
Status: FINAL
Valuation: $3,404.25
Contractor Company:
Contractor Name: BOND-BILT CONSTRUCTION CO

794 LAS PALMAS DR

Date: **2/13/2017**
Permit Type:
Description: **ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM**

Permit Description: **Building Misc - Photovoltaic System (PV)**
Work Class:
Proposed Use:
Permit Number: B17-0207
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: SOLARCITY CORPORATION

ADJOINING PROPERTY FINDINGS

795 LAS PALMAS DR

Date:	**6/6/2018**
Permit Type:	
Description:	**ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B18-1072
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	URBAN ENERGY SOLAR INC

Date:	**2/3/2016**
Permit Type:	
Description:	**RE-ROOF - COMP SHINGLES**
Permit Description:	**Building Miscellaneous - Reroof**
Work Class:	
Proposed Use:	
Permit Number:	B16-0219
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	REGAN ROOFING INC

ADJOINING PROPERTY FINDINGS

798 LAS PALMAS DR

Date:	**8/14/2019**
Permit Type:	
Description:	**ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B19-1637
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VIVINT SOLAR DEVELOPER LLC

Date:	**8/10/1999**
Permit Type:	**PLUMBING PERMIT**
Description:	**WATER HEATER REPLACEMENT**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B99-1116
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&J FOSTER

Date:	**9/19/1995**
Permit Type:	**BUILDING PERMIT**
Description:	**WOOD PATIO COVER WITH BUILT UP ROOF**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B95-1162
Status:	FINAL
Valuation:	$1,960.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**9/10/1993**
Permit Type:	**BUILDING PERMIT**
Description:	**6 SQ.FT. OFFSITE SIGN FOR COUNTRY DAY SCHOOL TO REPLACE PRIOR SIGN REMOVED BY MELROSE STREET WIDENING. APPROVED BY J. LARIMAR**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B93-1022
Status:	FINAL
Valuation:	$387.50
Contractor Company:	
Contractor Name:	

MATAGUAL DR

771 MATAGUAL DR

Date:	**12/13/2011**
Permit Type:	
Description:	**RE-ROOF COMP SHINGLES**
Permit Description:	**BUILDING PERMIT**
Work Class:	REROOF ADD/ALT SINGLE FAM
Proposed Use:	
Permit Number:	B11-1121
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHIELD ROOFING INC

ADJOINING PROPERTY FINDINGS

Date:	**7/5/2005**
Permit Type:	**ELECTRIC PERMIT**
Description:	**NEW ELEC SWITCH (OUTDOOR CIRCUIT BREAKER) & REPLACE ELEC METER SOCKET**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B05-1015
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/20/1994**
Permit Type:	**BLDG COMBINATION**
Description:	**CONVERT EXISTING KITCHEN TO BEDRM & & ADD BAY WINDOW & CONVERT EXISTING BEDRM TO KITCHEN.**
Permit Description:	
Work Class:	ADD/ALT SINGLE FAM DWELL
Proposed Use:	
Permit Number:	B94-0576
Status:	EXPIRED
Valuation:	$3,625.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

805 MATAGUAL DR

Date:	**6/24/2019**
Permit Type:	
Description:	**200 AMP ELECTRIC METER PANEL UPGRADE**
Permit Description:	**Building Misc - Electric Meter Upgrade**
Work Class:	
Proposed Use:	
Permit Number:	B19-1291
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ASI HEATING AND AIR

Date:	**5/30/2019**
Permit Type:	
Description:	**ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B19-1045
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ASI HEATING AND AIR

Date:	**4/9/2013**
Permit Type:	
Description:	**RE-ROOF BUILT UP**
Permit Description:	**BUILDING PERMIT**
Work Class:	REROOF ADD/ALT SINGLE FAM
Proposed Use:	
Permit Number:	B13-0342
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

808 MATAGUAL DR

Date:	**4/13/2021**
Permit Type:	
Description:	**INSTALL DUCTLESS MINI SPLIT SYSTEM W/ELECTRICAL**
Permit Description:	**Building HVAC Replacement**
Work Class:	
Proposed Use:	
Permit Number:	B21-0600
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BAKER ELECTRIC SOLAR

Date:	**2/17/2016**
Permit Type:	
Description:	**SOLAR PHOTOVOLTAIC SYSTEM - ROOF MOUNT &**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B16-0299
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BAKER ELECTRIC SOLAR

ADJOINING PROPERTY FINDINGS

812 MATAGUAL DR

Date:	**5/14/2013**
Permit Type:	
Description:	**BUILT UP RE-ROOF**
Permit Description:	**BUILDING PERMIT**
Work Class:	REROOF ADD/ALT SINGLE FAM
Proposed Use:	
Permit Number:	B13-0463
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

816 MATAGUAL DR

Date:	**4/5/2017**
Permit Type:	
Description:	**ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM &**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B17-0533
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SULLIVAN SOLAR POWER

ADJOINING PROPERTY FINDINGS

Date: **6/15/2015**
Permit Type:
Description: **REPAIR/REPLACE GAS LINE**

Permit Description: **Building Gas Line**
Work Class:
Proposed Use:
Permit Number: B15-1193
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: PENNY PINCH PLUMBING & DRAIN'S

822 MATAGUAL DR

Date: **8/18/2003**
Permit Type: **BLDG COMBINATION**
Description: **2ND STORY ADDN-MAST BEDRM/BATH, 2 BEDRMS, & LOFT.**

Permit Description:
Work Class: ADD/ALT SINGLE FAM DWELL
Proposed Use:
Permit Number: B03-0583
Status: FINAL
Valuation: $157,146.00
Contractor Company:
Contractor Name: R D CONSTRUCTION INC

Date: **10/23/2002**
Permit Type: **BLDG COMBINATION**
Description: **NEW LIVINGRM, NOOK,MASTERBATH. REMODEL KITCHEN INT**

Permit Description:
Work Class: ADD/ALT SINGLE FAM DWELL
Proposed Use:
Permit Number: B02-1336
Status: FINAL
Valuation: $114,971.00
Contractor Company:
Contractor Name: R D CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date:	**6/24/1998**
Permit Type:	**BLDG COMBINATION**
Description:	**ENLARGE LIVINGRM, ENCLOSE EXISTING ENTRY PORCH, CONVERT EXISTING NOOK & KITCHEN INTO DININGRM.NEW ENTRY, NOOK & KITCHEN ADDN. CREATE CLOSET FOR BED-RM 2. DEMO EXISTING BATH & BUILD NEW BATHRM.**
Permit Description:	
Work Class:	ADD/ALT SINGLE FAM DWELL
Proposed Use:	
Permit Number:	B98-0724
Status:	EXPIRED
Valuation:	$123,704.00
Contractor Company:	
Contractor Name:	R D CONSTRUCTION INC

Date:	**2/23/1994**
Permit Type:	**BUILDING PERMIT**
Description:	**DETACHED GARAGE W/TOILET RM**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B93-1093
Status:	FINAL
Valuation:	$15,288.00
Contractor Company:	
Contractor Name:	R D CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

824 MATAGUAL DR

Date:	**2/27/2018**
Permit Type:	
Description:	**ROOF MOUNT SOLAR PHOTOVOLTAIC SYSTEM**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B18-0355
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BAKER ELECTRIC SOLAR

Date:	**8/29/1995**
Permit Type:	**PLUMBING PERMIT**
Description:	**REPLACE WATER HEATER**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B95-1096
Status:	EXPIRED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&J FOSTER

ADJOINING PROPERTY FINDINGS

827 MATAGUAL DR

Date:	**2/9/2009**
Permit Type:	**PLUMBING PERMIT**
Description:	**REPLACE WATER HEATER**
Permit Description:	
Work Class:	WATER HEATER
Proposed Use:	
Permit Number:	B09-0116
Status:	EXPIRED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALL STAR WATER HEATERS INC.

828 MATAGUAL DR

Date:	**11/1/1999**
Permit Type:	**PLUMBING PERMIT**
Description:	**GAS LINE REPAIR**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B99-1514
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DRAVES PIPELINE

ADJOINING PROPERTY FINDINGS

Date:	**12/3/1997**
Permit Type:	**BLDG COMBINATION**
Description:	**BEDROOM, BATHROOM ADDITION, 2 CAR GARAGE & DECK**
Permit Description:	
Work Class:	ADD/ALT SINGLE FAM DWELL
Proposed Use:	
Permit Number:	B97-1336
Status:	PENDING
Valuation:	$54,258.00
Contractor Company:	
Contractor Name:	

Date:	**4/29/1996**
Permit Type:	**BLDG COMBINATION**
Description:	**LIVING RM & KITCHEN ADDITION.ENCLOSE BREEZEWAY TO BECOME SERVICE RM. FRONT ENTRY/PORCH ADDN. PATIO COVER AT REAR OF KITCHEN.**
Permit Description:	
Work Class:	ADD/ALT SINGLE FAM DWELL
Proposed Use:	
Permit Number:	B96-0350
Status:	FINAL
Valuation:	$47,900.25
Contractor Company:	
Contractor Name:	R D CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

830 MATAGUAL DR

Date:	**4/10/2017**
Permit Type:	
Description:	**ADD A/C**
Permit Description:	**Building Residential A/C Replacement**
Work Class:	
Proposed Use:	
Permit Number:	B17-0544
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ASI HEATING AND AIR

Date:	**7/24/1996**
Permit Type:	**PLUMBING PERMIT**
Description:	**REPLACE HOUSE SEWER LINE**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B96-0835
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HOFFMAN BACKHOE ENGINEERING

ADJOINING PROPERTY FINDINGS

842 MATAGUAL DR

Date:	**6/2/2014**
Permit Type:	
Description:	**SOLAR PHOTOVOLTAIC SYSTEM**
Permit Description:	**ELECTRIC PERMIT**
Work Class:	PHOTOVOLTAIC
Proposed Use:	
Permit Number:	B14-0688
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

S MELROSE DR

425 S MELROSE DR

Date:	**8/31/2016**
Permit Type:	
Description:	**REPLACE ROOF-MOUNT A/C UNITS (2)**
Permit Description:	**Building HVAC Replacement**
Work Class:	
Proposed Use:	
Permit Number:	B16-1514
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ASPEN COOLING & HEATING INC

ADJOINING PROPERTY FINDINGS

Date:	**7/29/2014**
Permit Type:	
Description:	**OGGI'S: CHANNEL LETTER WALL SIGNS, ILLUMINATED, TWO ELEVATIONS. JOB# 1-110-7300 wo# ******, TRAFFIC CONTROL REQUIRED TO INSTALL WATER SERVICE**
Permit Description:	**SIGN PERMIT**
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B14-1100
Status:	ISSUED
Valuation:	$3,676.50
Contractor Company:	
Contractor Name:	

Date:	**6/12/2014**
Permit Type:	
Description:	**5,124 SF RESTAURANT/KITCHEN REMODEL & 919 SF OUTDOOR LIGHTING FOR "OGGI'S SPORTS/BREWHOUSE/PIZZA" VISTA DENTAL GROUP ADMIN TUP EVENT, PARKING LOT CUSTOMER APPRECIATION, 06/30/2012 ,**
Permit Description:	**BLDG COMBINATION 071210**
Work Class:	TENANT
Proposed Use:	
Permit Number:	B14-0483
Status:	FINAL
Valuation:	$190,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/6/2014**
Permit Type:
Description: **DEMO INTERIOR PARTITIONS**

Permit Description: **BLDG COMBINATION 071210**
Work Class: TENANT
Proposed Use:
Permit Number: B14-0561
Status: FINAL
Valuation: $2,000.00
Contractor Company:
Contractor Name:

Date: **9/6/2005**
Permit Type: **FENCE PERMIT**
Description: **NO FEE FENCE PERMIT # 1006. 03/26/2002. 5' x 116' BLOCK & GLASS**

Permit Description:
Work Class: COMMERCIAL
Proposed Use:
Permit Number: D05-1007
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/20/2002**
Permit Type: **BUILDING PERMIT**
Description: **ILLUMINATED WALL SIGN**

Permit Description:
Work Class: OTHER
Proposed Use:
Permit Number: B02-0873
Status: EXPIRED
Valuation: $774.00
Contractor Company:
Contractor Name: WEST COAST SIGN COMPANY

ADJOINING PROPERTY FINDINGS

Date: **4/17/2002**
Permit Type: **BUILDING PERMIT**
Description: **ILLLUMINATED WALL SIGN"OGGI'S PIZZA & BREWING**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B02-0589
Status: FINAL
Valuation: $2,547.75
Contractor Company:
Contractor Name: WEST COAST SIGN COMPANY

Date: **11/26/2001**
Permit Type: **BLDG COMBINATION**
Description: **STUFT PIZZA-4880 SF**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B01-1062
Status: FINAL
Valuation: $404,064.00
Contractor Company:
Contractor Name: DUGGAN CONSTRUCTION

485 S MELROSE DR

Date: **1/25/2016**
Permit Type:
Description: **TENANT IMPROVEMENT - MELROSE SPA**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B15-2257
Status: ISSUED
Valuation: $35,000.00
Contractor Company:
Contractor Name: KITCHEN & BATH CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**1/8/2014**
Permit Type:	
Description:	**TENANT IMPROVEMENT - EXPANDING INTO ADJACENT SUITE**
Permit Description:	**BLDG COMBINATION 071210**
Work Class:	TENANT
Proposed Use:	
Permit Number:	B13-1189
Status:	ISSUED
Valuation:	$89,880.00
Contractor Company:	
Contractor Name:	

Date:	**10/26/2009**
Permit Type:	**SIGN PERMIT**
Description:	**2 ILLUM CHANNEL LETTER WALL SIGNS "PHO-EVER VIETNAMESE CUISINE" SUITE # 106**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B09-0916
Status:	FINAL
Valuation:	$2,225.25
Contractor Company:	
Contractor Name:	SIGNS 4BIZ

Date:	**10/19/2009**
Permit Type:	**BLDG COMBINATION 1/1/09**
Description:	**TENANT IMPROVEMENT - PHO-EVER RESTAURANT**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B09-0829
Status:	FINAL
Valuation:	$71,135.00
Contractor Company:	
Contractor Name:	N P L GENERAL CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date:	**8/18/2008**
Permit Type:	**SIGN PERMIT**
Description:	**2 ILLUM CHANNEL LETTER WALL SIGNS "BLACK FOREST BISTRO" SUITE #112**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B08-0800
Status:	FINAL
Valuation:	$1,096.50
Contractor Company:	
Contractor Name:	CLEAR SIGN AND DESIGN

Date:	**8/15/2008**
Permit Type:	**BLDG COMBINATION8/14/07**
Description:	**T.I. RESTAURANT "BLACK FOREST BISTRO DELI" STE #112**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B08-0564
Status:	FINAL
Valuation:	$71,680.00
Contractor Company:	
Contractor Name:	HOLLOWAY CONSTRUCTION

Date:	**7/17/2008**
Permit Type:	**SIGN PERMIT**
Description:	**ILLUM CHANNEL LETTER WALL SIGN. MODIFY EXISTING WALL SIGN FROM "THANON" TO "TAI ONE ON".**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B08-0833
Status:	FINAL
Valuation:	$419.25
Contractor Company:	
Contractor Name:	FORD SIGNS

ADJOINING PROPERTY FINDINGS

Date: **1/23/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **TENANT IMPROVEMENT - VERIZON STORE**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B06-1630
Status: FINAL
Valuation: $44,805.00
Contractor Company:
Contractor Name: OXFORD CONSTRUCTION

Date: **1/15/2007**
Permit Type: **SIGN PERMIT**
Description: **ILLUM/NON ILLUM CHANNEL LETTER WALL SIGN -" VERIZON WIRELESS**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B06-1569
Status: FINAL
Valuation: $967.50
Contractor Company:
Contractor Name: VISIBLE GRAPHICS

Date: **1/3/2006**
Permit Type: **SIGN PERMIT**
Description: **ILLUMINATED WALL MOUNTED SIGN-"VILLAGE BAGEL CO. BAKERY & CAFE"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B05-1783
Status: FINAL
Valuation: $903.00
Contractor Company:
Contractor Name: STANFORD SIGNS

ADJOINING PROPERTY FINDINGS

Date: **7/26/2005**
Permit Type: **BLDG COMBINATION**
Description: **T.I. "THE VILLAGE BAGEL COMPANY" SUITE #106**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B05-0711
Status: FINAL
Valuation: $70,315.00
Contractor Company:
Contractor Name: DAN LEVY CONSTRUCTION COMPANY INC

Date: **5/31/2005**
Permit Type: **SIGN PERMIT**
Description: **ILLUM CHANNEL LETTER WALL SIGN "THANON THAI CUISINE"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B05-0659
Status: FINAL
Valuation: $1,257.75
Contractor Company:
Contractor Name: ALFA EXPERTS ELECTRICAL CORP

Date: **5/5/2005**
Permit Type: **BUILDING PERMIT**
Description: **ILLUMINIATED WALL SIGN " THANON THAI CUISINE"**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B05-0658
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/22/2005**
Permit Type:	**SIGN PERMIT**
Description:	**ILLUMINATED CHANNEL LETTER WALL SIGN "DRY CLEANING STATION"**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B05-0194
Status:	EXPIRED
Valuation:	$709.50
Contractor Company:	
Contractor Name:	STANFORD SIGNS

Date:	**12/16/2004**
Permit Type:	**BLDG COMBINATION**
Description:	**T.I.-DRY CLEANERS PICK UP AND DROP OFF ONLY (NO DRYCLEANING DONE ON THE PREMISES)**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B04-2075
Status:	FINAL
Valuation:	$7,395.00
Contractor Company:	
Contractor Name:	ABC ALL AROUND

Date:	**10/13/2004**
Permit Type:	**BUILDING PERMIT**
Description:	**C OF O-"HOUSE OF THANON THAI CUISINE" (BUSINESS LICENSE #00019184)**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B04-1809
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **6/17/2004**
Permit Type: **SIGN PERMIT**
Description: **2 ILLUM CHANNEL LETTER WALL SIGNS"QUIZNOS SUB" 17.4SF EACH**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B04-1108
Status: FINAL
Valuation: $1,128.75
Contractor Company:
Contractor Name: EMPIRE SIGN & CRANE SERVICE INC.

Date: **5/25/2004**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENT - QUIZNOS - SUITE G**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B04-0662
Status: FINAL
Valuation: $63,837.00
Contractor Company:
Contractor Name: BOGART CONSTRUCTION INC

Date: **2/26/2002**
Permit Type: **BUILDING PERMIT**
Description: **18SF ILLUMINATED WALL SIGN-"PROFESSIONAL NAIL"**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0789
Status: FINAL
Valuation: $580.50
Contractor Company:
Contractor Name: ALCOA SIGNAGE

ADJOINING PROPERTY FINDINGS

Date: **10/8/2001**
Permit Type: **BUILDING PERMIT**
Description: **ILLUMINATED WALL SIGN-"DECADE"**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-1441
Status: FINAL
Valuation: $1,354.50
Contractor Company:
Contractor Name: FORD SIGNS

Date: **6/19/2001**
Permit Type: **BUILDING PERMIT**
Description: **2 ILLUMINATED WALL SIGNS "TOGOS"**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0847
Status: FINAL
Valuation: $1,419.00
Contractor Company:
Contractor Name: WESTERN SIGN SYSTEMS

Date: **5/31/2001**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENT TOGOS SUITE G**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B00-1734
Status: FINAL
Valuation: $44,515.00
Contractor Company:
Contractor Name: HAWKINS CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **5/1/2001**
Permit Type: **BUILDING PERMIT**
Description: **43SF ILLUM WALL SIGN-KINGS GARDEN ASIAN BANQUET**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0588
Status: FINAL
Valuation: $1,386.75
Contractor Company:
Contractor Name: ALCOA SIGNAGE

Date: **3/20/2001**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENT SUITE F - PROFESSIONAL NAIL**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B01-0287
Status: FINAL
Valuation: $40,600.00
Contractor Company:
Contractor Name: PEROCK CONSTRUCTION AND DEV

Date: **3/6/2001**
Permit Type: **BUILDING PERMIT**
Description: **1 ILLUM PYLON SIGN & MONUM SIGN/BREEZEHILL PLAZA**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0282
Status: FINAL
Valuation: $5,000.00
Contractor Company:
Contractor Name: ULTRANEON SIGN CORP.

ADJOINING PROPERTY FINDINGS

Date: **2/15/2001**
Permit Type: **BLDG COMBINATION**
Description: **2,640 SF RESTAURANT T.I. (KINGS GARDEN)**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B00-1814
Status: FINAL
Valuation: $108,240.00
Contractor Company:
Contractor Name:

Date: **12/18/2000**
Permit Type: **BUILDING PERMIT**
Description: **ILLUMINATED WALL SIGN - PAPA JOHN**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B00-1842
Status: FINAL
Valuation: $1,290.00
Contractor Company:
Contractor Name: WESTERN SIGN SYSTEMS

C.O. Issued Date: **3/14/2001**
Date: **12/7/2000**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENT - PAPA JOHNS PIZZA**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B00-1449
Status: FINAL
Valuation: $62,720.00
Contractor Company:
Contractor Name: ORANCO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **6/16/2000**
Permit Type: **BLDG COMBINATION**
Description: **10,030 SF COMMERCIAL BUILDING**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B00-0036
Status: FINAL
Valuation: $503,506.00
Contractor Company:
Contractor Name: VILLAGE PROPERTY SYSTEMS INC

490 S MELROSE DR

Date: **2/18/2015**
Permit Type:
Description: **ROOF-MOUNT SOLAR PHOTOVOLTAIC SYSTEM**

Permit Description: **ELECTRIC PERMIT**
Work Class:
Proposed Use:
Permit Number: B14-1825
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: REC SOLAR COMMERCIAL CORP/REC COMMERCIAL CORP

ADJOINING PROPERTY FINDINGS

Date: **10/25/2006**
Permit Type: **SIGN PERMIT**
Description: **2 NON ILLUM INDIVIDUAL LETTER WALL SIGNS & MOVE EXISTING ADDRESS #'S UP NEXT TO WINDOW**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B06-1297
Status: FINAL
Valuation: $713.00
Contractor Company:
Contractor Name: WESTERN SIGN & AWNING INC

Date: **9/30/2005**
Permit Type: **FENCE PERMIT**
Description:

Permit Description:
Work Class: COMMERCIAL
Proposed Use:
Permit Number: D05-1270
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/29/2005**
Permit Type: **FENCE PERMIT**
Description: **NO FEE FENCE PERMIT # 1272. 09/13/2004. 5' x 64' WOOD FENCE**

Permit Description:
Work Class: RESIDENTIAL FENCE
Proposed Use:
Permit Number: D05-1271
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/26/2002**
Permit Type: **BUILDING PERMIT**
Description: **RETAINING WALL SPLIT FACE BLOCK MAX HEIGHT 3.59'. W/ 6' WROUGHT IRON FENCE(OK PER P.RICHARDSON)/RB**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B02-2095
Status: FINAL
Valuation: $5,704.00
Contractor Company:
Contractor Name: BRAND CONSTRUCTION

Date: **11/4/2002**
Permit Type: **BUILDING PERMIT**
Description: **ILLUM POLE SIGN, 2 ILLUM MONUMENT SIGNS, 1 WALL SIGN**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B02-0979
Status: FINAL
Valuation: $7,607.25
Contractor Company:
Contractor Name: BRAND CONSTRUCTION

Date: **8/5/2002**
Permit Type: **BLDG COMBINATION**
Description: **METHODIST CHURCH-19,340 SF CHURCH AND 10,036 SF**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B02-0250
Status: FINAL
Valuation: $2,137,127.40
Contractor Company:
Contractor Name: BRAND CONSTRUCTION

ADJOINING PROPERTY FINDINGS

495 S MELROSE DR

Date:	**6/30/2008**
Permit Type:	**ELECTRIC PERMIT**
Description:	**100 AMP ELECTRIC METER FOR TELCO CABINET**
Permit Description:	
Work Class:	MISC ELECTRICAL
Proposed Use:	
Permit Number:	B08-0772
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROBINSON ELECTRIC

Date:	**5/27/2003**
Permit Type:	**BUILDING PERMIT**
Description:	**TRASH ENCLOSURE**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B03-0788
Status:	FINAL
Valuation:	$2,697.00
Contractor Company:	
Contractor Name:	MORRISSEY CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **4/14/2003**
Permit Type: **SIGN PERMIT**
Description: **3 ILLUM WALL SIGNS, 2 D/F ILLUM DIRECTIONAL SIGNS & 1 S/F ILLUM MONUMENT SIGN.**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B03-0082
Status: FINAL
Valuation: $2,242.50
Contractor Company:
Contractor Name: CALIFORNIA NEON PRODUCTS

C.O. Issued Date: **6/13/2003**
Date: **3/31/2003**
Permit Type: **BLDG COMBINATION**
Description: **NEW EL POLLO LOCO RESTAURANT**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B02-2114
Status: FINAL
Valuation: $248,400.00
Contractor Company:
Contractor Name: MORRISSEY CONSTRUCTION COMPANY

Date: **6/13/2000**
Permit Type: **BUILDING PERMIT**
Description: **RETAINING WALLS**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B00-0849
Status: FINAL
Valuation: $16,926.00
Contractor Company:
Contractor Name: BUIE CONSULTING INC

ADJOINING PROPERTY FINDINGS

560 S MELROSE DR

Date:	**8/14/2006**
Permit Type:	**BUILDING PERMIT**
Description:	**RE-ROOF W/COMP SHINGLES (SAME MATERIAL & COLOR AS EXISTING)**
Permit Description:	
Work Class:	REROOF
Proposed Use:	
Permit Number:	B06-1022
Status:	FINAL
Valuation:	$5,280.00
Contractor Company:	
Contractor Name:	PATRIOT ROOFING

Date:	**6/27/2003**
Permit Type:	**SIGN PERMIT**
Description:	**DOUBLE FACED, NON-ILLUMINATED MONUMENT SIGN**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B03-0990
Status:	FINAL
Valuation:	$1,717.75
Contractor Company:	
Contractor Name:	ROUSE SIGN AND GRAPHICS

Date:	**11/12/1992**
Permit Type:	**PLUMBING PERMIT**
Description:	**GAS LINE REPAIR**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B92-1258
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FELKINS PLUMBING COMPANY INC.

ADJOINING PROPERTY FINDINGS

609 S MELROSE DR

Date:	**8/26/2008**
Permit Type:	**ELECTRIC PERMIT**
Description:	**100 ELECTRIC AMP FOR TELCO CABINET**
Permit Description:	
Work Class:	MISC ELECTRICAL
Proposed Use:	
Permit Number:	B08-1067
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PAR ELECTRICAL CONTRACTORS INC

610 S MELROSE DR

Date:	**9/12/1995**
Permit Type:	**BUILDING PERMIT**
Description:	**6 HEIGH X 66" WIDE MONUMENT SIGN-DENTIST**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B95-1132
Status:	FINAL
Valuation:	$1,680.00
Contractor Company:	
Contractor Name:	AURORA SIGN & LIGHTING

ADJOINING PROPERTY FINDINGS

Date:	**5/30/1995**
Permit Type:	**BLDG COMBINATION**
Description:	**CONVERT SINGLE FAMILY DWELLING INTO DENTIST OFFICEDEMO EXISTING 2 CAR GARAGE,FAM RM & DEN & POOL & PUMP ROOM.**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B94-1108
Status:	FINAL
Valuation:	$54,214.50
Contractor Company:	
Contractor Name:	RAHBAR CONSTRUCTION COMPANY

Date:	**5/12/1995**
Permit Type:	**DEMOLITION PERMIT**
Description:	**DEMO SWIMMING POOL,STEEL PUMP ROOM, & PATIO COVER**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B95-0609
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RAHBAR CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

620 S MELROSE DR

Date:	**6/8/2020**
Permit Type:	
Description:	**MODIFY ADA PATH OF TRAVEL**
Permit Description:	**Building Commercial Case**
Work Class:	
Proposed Use:	
Permit Number:	B20-0231
Status:	FINALED
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	KIANEH CONSTRUCTION CO LLC

Date:	**5/22/2019**
Permit Type:	
Description:	**REPLACE (E) ROOF-TOP A/C (LIKE FOR LIKE)**
Permit Description:	**Building Residential A/C Replacement**
Work Class:	
Proposed Use:	
Permit Number:	B19-0994
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MESA ENERGY SYSTEMS INC

Date:	**8/10/2009**
Permit Type:	**PLUMBING PERMIT**
Description:	**WATER HEATER REPLACEMENT**
Permit Description:	
Work Class:	WATER HEATER
Proposed Use:	
Permit Number:	B09-0749
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	N P PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **12/23/1999**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENTS- OFFICES**

Permit Description:
Work Class: ADD/ALTER COMMERCIAL
Proposed Use:
Permit Number: B99-1617
Status: FINAL
Valuation: $35,322.00
Contractor Company:
Contractor Name:

Date: **8/31/1998**
Permit Type: **BUILDING PERMIT**
Description: **2 SIDED MONUMENT SIGN, WALL SIGN**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-1079
Status: FINAL
Valuation: $1,908.25
Contractor Company:
Contractor Name: QWIKSIGN

Date: **4/30/1998**
Permit Type: **ELECTRICAL PERMIT**
Description: **TEMPORARY POWER POLE**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-0521
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: ARC CONSTRUCTION

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **11/2/1998**
Date: **12/3/1997**
Permit Type: **BLDG COMBINATION**
Description: **DENTAL OFFICE BUILDING**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B97-0508
Status: FINAL
Valuation: $404,965.00
Contractor Company:
Contractor Name: ARC CONSTRUCTION

624 S MELROSE DR

Date: **9/7/2011**
Permit Type:
Description: **CONVERT FROM PROPANE TO GAS**

Permit Description: **PLUMBING PERMIT**
Work Class: UTILITY LINES
Proposed Use:
Permit Number: B11-0796
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

625 S MELROSE DR

Date:	**5/25/2010**
Permit Type:	**BUILDING PERMIT**
Description:	**NINE AWNINGS**
Permit Description:	
Work Class:	OTHER
Proposed Use:	
Permit Number:	B10-0482
Status:	FINAL
Valuation:	$2,077.00
Contractor Company:	
Contractor Name:	ADIMPACT CORPORATE SIGNAGE

Date:	**5/6/2010**
Permit Type:	**SIGN PERMIT**
Description:	**4 WALL SIGNS AND 3 DIRECTIONAL SIGNS**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B10-0438
Status:	FINAL
Valuation:	$7,224.00
Contractor Company:	
Contractor Name:	ADIMPACT CORPORATE SIGNAGE

Date:	**3/24/2010**
Permit Type:	**BLDG COMBINATION 1/1/09**
Description:	**PARKING LOT LIGHTING-6 LIGHT STANDARDS**
Permit Description:	
Work Class:	OTHER
Proposed Use:	
Permit Number:	B10-0287
Status:	FINAL
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	COASTLINE DEVELOPMENT INC.

ADJOINING PROPERTY FINDINGS

Date: **3/8/2010**
Permit Type: **ELECTRIC PERMIT**
Description: **TEMPORARY POWER POLE**

Permit Description:
Work Class: TEMP POWER POLE
Proposed Use:
Permit Number: B10-0226
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: COASTLINE DEVELOPMENT INC.

Date: **2/3/2010**
Permit Type: **BLDG COMBINATION 1/1/09**
Description: **COMERICA BANK AND CANOPY**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B09-0340
Status: FINAL
Valuation: $352,353.20
Contractor Company:
Contractor Name: COASTLINE DEVELOPMENT INC.

630 S MELROSE DR

Date: **9/15/2003**
Permit Type: **SIGN PERMIT**
Description: **MONUMENT SIGN "DENTAL CARE & IMPLANTS"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B03-1200
Status: FINAL
Valuation: $1,257.75
Contractor Company:
Contractor Name: ALCOA SIGNAGE

ADJOINING PROPERTY FINDINGS

Date: **6/16/1999**
Permit Type: **BLDG COMBINATION**
Description: **TENANT IMPROVEMENT-LAW OFFICE**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B99-0682
Status: FINAL
Valuation: $26,738.00
Contractor Company:
Contractor Name:

Date: **9/1/1998**
Permit Type: **BUILDING PERMIT**
Description: **TRASH ENCLOSURE**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-1091
Status: FINAL
Valuation: $855.00
Contractor Company:
Contractor Name:

Date: **7/31/1998**
Permit Type: **PLUMBING PERMIT**
Description: **MISC PLUMBING FOR DENTAL EQUIPMENT**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-0857
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: M.S.B. BUILDERS

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **3/11/1999**
Date: **6/24/1998**
Permit Type: **BLDG COMBINATION**
Description: **2178 SQ FT DENTAL OFFICE**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B98-0090
Status: FINAL
Valuation: $167,706.00
Contractor Company:
Contractor Name: M.S.B. BUILDERS

Date: **5/18/1998**
Permit Type: **BUILDING PERMIT**
Description: **RETAINING WALL AS PER GP 98-005**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-0585
Status: FINAL
Valuation: $17,051.00
Contractor Company:
Contractor Name: M.S.B. BUILDERS

Date: **3/12/1998**
Permit Type: **BUILDING PERMIT**
Description: **DEMO EXISTING SFD (1230 SQ FT)**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-0236
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: M.S.B. BUILDERS

ADJOINING PROPERTY FINDINGS

Date: **3/10/1998**
Permit Type: **ELECTRICAL PERMIT**
Description: **T-POLE**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-0226
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: ARC CONSTRUCTION

631 S MELROSE DR

Date: **10/15/2018**
Permit Type:
Description: **SWIMMING POOL & SPA - BREEZE HILL APARTMENTS**

Permit Description: **Building Spa and Pool**
Work Class:
Proposed Use:
Permit Number: B18-1712
Status: ISSUED
Valuation: $70,000.00
Contractor Company:
Contractor Name: ISLAND CONSTRUCTION CORPORATION

Date: **7/11/2018**
Permit Type:
Description: **INSTALL (6) ELECTRIC VEHICLE CHARGING PORTS**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B18-0666
Status: ISSUED
Valuation: $64,290.00
Contractor Company:
Contractor Name: HENKELS & MCCOY INC

ADJOINING PROPERTY FINDINGS

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE A (13 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2200
Status: ISSUED
Valuation: $1,197,186.33
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE A (13 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2201
Status: ISSUED
Valuation: $1,196,951.93
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE A (13 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2202
Status: ISSUED
Valuation: $1,196,951.93
Contractor Company:
Contractor Name: HIGHLAND PM LLC

ADJOINING PROPERTY FINDINGS

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE B (15 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2203
Status: ISSUED
Valuation: $1,340,764.78
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE C (10 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2204
Status: ISSUED
Valuation: $795,928.28
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE C (10 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2205
Status: ISSUED
Valuation: $801,028.28
Contractor Company:
Contractor Name: HIGHLAND PM LLC

ADJOINING PROPERTY FINDINGS

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX TYPE D (14 UNITS)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2206
Status: ISSUED
Valuation: $1,362,839.27
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX CLUB HOUSE**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2207
Status: ISSUED
Valuation: $200,220.63
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX GARAGE (BLD 1)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2208
Status: ISSUED
Valuation: $51,968.32
Contractor Company:
Contractor Name: HIGHLAND PM LLC

ADJOINING PROPERTY FINDINGS

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX GARAGE (BLD 2)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2209
Status: ISSUED
Valuation: $51,968.32
Contractor Company:
Contractor Name:

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX GARAGE (BLD 3)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2210
Status: ISSUED
Valuation: $51,968.32
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **APARTMENT COMPLEX GARAGE (BLD 4)**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2211
Status: ISSUED
Valuation: $51,968.32
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/19/2017**
Permit Type:
Description: **POOL EQUIPMENT BUILDING**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2212
Status: ISSUED
Valuation: $6,971.36
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **12/19/2017**
Permit Type:
Description: **4 TRASH ENCLOSURES**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B16-2213
Status: ISSUED
Valuation: $23,766.00
Contractor Company:
Contractor Name: HIGHLAND PM LLC

Date: **10/24/2017**
Permit Type:
Description: **DEMOLISH RETAIL BUILDING**

Permit Description: **Building Demolition**
Work Class:
Proposed Use:
Permit Number: B17-1643
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: HIGHLAND PM LLC

ADJOINING PROPERTY FINDINGS

Date: **11/23/2010**
Permit Type: **BUILDING PERMIT**
Description: **CERTIFICATE OF OCCUPANCY FOR KINGS STATIONERS**

Permit Description:
Work Class: CERTIFICATE OF OCCUPANCY
Proposed Use:
Permit Number: B10-1119
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/27/2010**
Permit Type: **SIGN PERMIT**
Description: **WALL SIGN 15 SQ.FT. SIGN AREA, NON-ILLUMINATED, TENANT PANEL ON MONUMENT SIGN (VINYL LETTERS).**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B10-0823
Status: FINAL
Valuation: $232.50
Contractor Company:
Contractor Name:

Date: **2/16/2010**
Permit Type: **SIGN PERMIT**
Description: **ILLUM CHANNEL LETTER WALL SIGN "NORTHSTAR BAIL BONDS"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B09-0531
Status: EXPIRED
Valuation: $580.50
Contractor Company:
Contractor Name: FORD SIGNS

ADJOINING PROPERTY FINDINGS

Date: **1/15/2009**
Permit Type: **SIGN PERMIT**
Description: **ILLUM CHANNEL LETTER WALL SIGN "SALON POISE"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B09-0037
Status: FINAL
Valuation: $645.00
Contractor Company:
Contractor Name: FORD SIGNS

Date: **1/6/2009**
Permit Type: **BLDG COMBINATION 1/1/09**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: B09-0013
Status: VOID
Valuation: $55,000.00
Contractor Company:
Contractor Name:

Date: **1/6/2009**
Permit Type: **BLDG COMBINATION8/14/07**
Description: **T.I. - VANILLA SHELL**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B08-1376
Status: FINAL
Valuation: $41,993.60
Contractor Company:
Contractor Name: KNR BUILDERS

ADJOINING PROPERTY FINDINGS

Date:	**12/19/2008**
Permit Type:	**BLDG COMBINATION8/14/07**
Description:	**TENANT IMPROVEMENT-SUITE 103 - "POISE HAIR SALON"**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B08-1391
Status:	FINAL
Valuation:	$41,993.60
Contractor Company:	
Contractor Name:	TOM LINQUIST CONSTRUCTION INCORPORATED

Date:	**4/14/2008**
Permit Type:	**SIGN PERMIT**
Description:	**ILLUM CHANNEL LETTER WALL SIGN "ELEGANT NAILS & SPAS" STE#106**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B07-1127
Status:	FINAL
Valuation:	$612.75
Contractor Company:	
Contractor Name:	FX SIGNS

Date:	**3/18/2008**
Permit Type:	**SIGN PERMIT**
Description:	**ILLUM CHANNEL LETTER WALL SIGN & FACE CHANGE ONLY TO EXISTING MONUMENT SIGN. "SUBMARINA"**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B08-0168
Status:	FINAL
Valuation:	$935.25
Contractor Company:	
Contractor Name:	MATTHEWS SIGNS

ADJOINING PROPERTY FINDINGS

Date: **3/11/2008**
Permit Type: **BLDG COMBINATION8/14/07**
Description: **TENANT IMPROVEMENT - SUBMARINA**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-1662
Status: FINAL
Valuation: $53,505.00
Contractor Company:
Contractor Name: SHRADER & MARTINEZ CONSTRUCTION INC

Date: **12/17/2007**
Permit Type: **SIGN PERMIT**
Description: **ILLUM CHANNEL LETTER WALL SIGN-"VIA SICILIA RISTORANTE ITALIANO" (SUITE 101)**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-1560
Status: FINAL
Valuation: $1,386.75
Contractor Company:
Contractor Name: FORD SIGNS

Date: **12/4/2007**
Permit Type: **SIGN PERMIT**
Description:

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-1539
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/28/2007**
Permit Type: **BLDG COMBINATION8/14/07**
Description: **SPEC. TENANT IMPROVEMENT(T-BAR CEILING,BATHROOM, ELECTRICAL)**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-1318
Status: FINAL
Valuation: $143,061.80
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **11/20/2007**
Permit Type: **SIGN PERMIT**
Description: **ILLUMINATED CHANNEL LETTER WALL SIGN "MARTINIZING DRY CLEANING"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-1391
Status: FINAL
Valuation: $516.00
Contractor Company:
Contractor Name: ULTRASIGNS ELECTRICAL ADVERTISING

Date: **10/12/2007**
Permit Type: **SIGN PERMIT**
Description: **ONE ILLUMINATED WALL SIGN & LOGO -" LIBERTY TAX"**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-1300
Status: FINAL
Valuation: $483.75
Contractor Company:
Contractor Name: WESTERN SIGN & AWNING INC

ADJOINING PROPERTY FINDINGS

Date: **9/17/2007**
Permit Type: **ELECTRIC PERMIT**
Description: **ELECTRIC & GAS METER SET**

Permit Description:
Work Class: MISC ELECTRICAL
Proposed Use:
Permit Number: B07-1171
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **9/12/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **297 SF OFFICE TENANT IMPROVEMENT (SUITE 105)-"LIBERTY TAX"**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0958
Status: FINAL
Valuation: $9,325.80
Contractor Company:
Contractor Name:

Date: **9/10/2007**
Permit Type: **ELECTRIC PERMIT**
Description: **ELECTRIC & GAS METER SET**

Permit Description:
Work Class: MISC ELECTRICAL
Proposed Use:
Permit Number: B07-1168
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **9/10/2007**
Permit Type: **ELECTRIC PERMIT**
Description: **ELECTRIC & GAS METER SET**

Permit Description:
Work Class: MISC ELECTRICAL
Proposed Use:
Permit Number: B07-1172
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **9/10/2007**
Permit Type: **ELECTRIC PERMIT**
Description: **ELECTRIC & GAS METER SET**

Permit Description:
Work Class: MISC ELECTRICAL
Proposed Use:
Permit Number: B07-1169
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **9/10/2007**
Permit Type: **ELECTRIC PERMIT**
Description: **ELECTRIC & GAS METER SET**

Permit Description:
Work Class: MISC ELECTRICAL
Proposed Use:
Permit Number: B07-1170
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **8/15/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **T.I. - RESTAURANT "VIA SICILIA RESTAURANT"**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0388
Status: FINAL
Valuation: $169,872.80
Contractor Company:
Contractor Name: JACOR CONSTRUCTION INC.

Date: **8/3/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **TENANT IMPROVEMENT - SPORT CUTS**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0913
Status: EXPIRED
Valuation: $41,993.60
Contractor Company:
Contractor Name: COASTAL DESIGNS

Date: **7/9/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **1,002 SF TENANT IMPROVEMENT FOR DROP OFF DRY CLEANING BUSINESS -"MARTINIZING" (SUITE 104)**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0862
Status: FINAL
Valuation: $31,462.80
Contractor Company:
Contractor Name: QUEST CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **6/19/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **1300 SF TENANT IMPROVEMENT FOR ELEGANT NAILS AND SPA**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0507
Status: FINAL
Valuation: $37,700.00
Contractor Company:
Contractor Name: MANN CONSTRUCTION

Date: **6/14/2007**
Permit Type: **FENCE PERMIT**
Description: **600' X 6' HIGH WROUGHT IRON FENCE**

Permit Description:
Work Class: COMMERCIAL
Proposed Use:
Permit Number: D07-0041
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0019
Status: FINAL
Valuation: $104,371.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0020
Status: FINAL
Valuation: $42,369.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0021
Status: FINAL
Valuation: $34,597.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0022
Status: FINAL
Valuation: $29,058.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0023
Status: FINAL
Valuation: $29,058.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0024
Status: FINAL
Valuation: $37,729.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0025
Status: FINAL
Valuation: $34,684.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

Date: **3/20/2007**
Permit Type: **BLDG COMBINATION8/20/06**
Description: **SPEC - TENANT IMPROVEMENT**

Permit Description:
Work Class: TENANT IMPROVEMENT
Proposed Use:
Permit Number: B07-0026
Status: FINAL
Valuation: $43,500.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **2/26/2007**
Permit Type: **SIGN PERMIT**
Description: **1 ILLUM D/F MONUMENT SIGN & 1 ILLUM D/F PYLON SIGN**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-0117
Status: FINAL
Valuation: $22,155.00
Contractor Company:
Contractor Name: FORD SIGNS

Date: **12/20/2006**
Permit Type: **ELECTRIC PERMIT**
Description: **TEMPORARY POWER POLE**

Permit Description:
Work Class: TEMP POWER POLE
Proposed Use:
Permit Number: B06-1639
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: POWER PLUS

ADJOINING PROPERTY FINDINGS

Date: **11/30/2006**
Permit Type: **BLDG COMBINATION**
Description: **21,549 SF RETAIL BLDG BUILDING C**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B06-0504
Status: FINAL
Valuation: $1,081,759.80
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **11/29/2006**
Permit Type: **PLUMBING PERMIT**
Description: **WATER SERVICE**

Permit Description:
Work Class: UTILITY LINES WTR/GAS/SWR
Proposed Use:
Permit Number: B06-1555
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **9/29/2006**
Permit Type: **BUILDING PERMIT**
Description: **383. SF SOUND WALL - DECORATIVE BLOCK**

Permit Description:
Work Class: RETAINING OR BLOCK WALL
Proposed Use:
Permit Number: B06-0688
Status: FINAL
Valuation: $2,968.25
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

ADJOINING PROPERTY FINDINGS

635 S MELROSE DR

Date:	**4/8/2019**
Permit Type:	
Description:	**TENANT IMPROVEMENT - CVS**
Permit Description:	**Building Commercial Case**
Work Class:	
Proposed Use:	
Permit Number:	B18-2428
Status:	FINALED
Valuation:	$49,000.00
Contractor Company:	
Contractor Name:	HARCO GROUP INC

Date:	**8/11/2014**
Permit Type:	
Description:	**GAS LINE REPAIR**
Permit Description:	**PLUMBING PERMIT**
Work Class:	UTILITY LINES
Proposed Use:	
Permit Number:	B14-1181
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/20/2009**
Permit Type:	**BLDG COMBINATION 1/1/09**
Description:	**TENANT IMPROVEMENT(CHECKOUT STANDS, PHOTO LAB,)**
Permit Description:	
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	B09-0295
Status:	FINAL
Valuation:	$33,600.00
Contractor Company:	
Contractor Name:	REEVE-KNIGHT CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date:	**4/6/2009**
Permit Type:	**SIGN PERMIT**
Description:	**7 ILLUM CHANNEL LETTER WALL SIGNS, 2 NON-ILLUM INDIVIDUAL LETTER WALL SIGNS, 3 NON-ILLUM WALL PLAQUES, & FACE CHANGE ONLY ON 6 D/F DIRECTIONAL POST SIGNS & 3 D/F MONUMENT SIGNS.**
Permit Description:	
Work Class:	COMMERCIAL SIGN
Proposed Use:	
Permit Number:	B09-0094
Status:	FINAL
Valuation:	$9,516.50
Contractor Company:	
Contractor Name:	P S SERVICES INC.

Date:	**7/19/2007**
Permit Type:	**BUILDING PERMIT**
Description:	**STORAGE RACKS**
Permit Description:	
Work Class:	STORAGE RACKS
Proposed Use:	
Permit Number:	B07-0693
Status:	FINAL
Valuation:	$120,000.00
Contractor Company:	
Contractor Name:	THE HATCH GROUP INC

ADJOINING PROPERTY FINDINGS

Date: **6/7/2007**
Permit Type: **SIGN PERMIT**
Description: **5 ILLUM CHANNEL LETTER WALL SIGNS "LONGS DRUGS" "(2)"DRIVE-THRU PHARMACY" (2) "EXIT ONLY(1)**

Permit Description:
Work Class: COMMERCIAL SIGN
Proposed Use:
Permit Number: B07-0781
Status: FINAL
Valuation: $7,256.25
Contractor Company:
Contractor Name:

Date: **5/21/2007**
Permit Type: **BUILDING PERMIT**
Description: **2 TRASH ENCLOSURES (STUCCO FINISH)**

Permit Description:
Work Class: OTHER
Proposed Use:
Permit Number: B07-0667
Status: FINAL
Valuation: $3,100.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **12/11/2006**
Permit Type: **BLDG COMBINATION**
Description: **15,790 SF LONGS DRUG STORE-BLDG B**

Permit Description:
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: B06-0509
Status: FINAL
Valuation: $792,658.00
Contractor Company:
Contractor Name: THE HATCH GROUP INC

ADJOINING PROPERTY FINDINGS

Date: **11/29/2006**
Permit Type: **PLUMBING PERMIT**
Description: **WATER SERVICE**

Permit Description:
Work Class: UTILITY LINES WTR/GAS/SWR
Proposed Use:
Permit Number: B06-1556
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **11/8/2006**
Permit Type: **BLDG COMBINATION**
Description: **PARKING LOT LIGHTING-BUILDING C**

Permit Description:
Work Class: ADD/ALTER COMMERCIAL
Proposed Use:
Permit Number: B06-0505
Status: FINAL
Valuation: $136,000.00
Contractor Company:
Contractor Name: VRATSINAS CONSTRUCTION COMPANY

Date: **9/13/2006**
Permit Type: **ELECTRIC PERMIT**
Description: **T-POLE AND 4 STRINGER POLES**

Permit Description:
Work Class: TEMP POWER POLE
Proposed Use:
Permit Number: B06-1166
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: POWER PLUS

ADJOINING PROPERTY FINDINGS

Date: **3/4/2002**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRIC GENERATOR FOR CARNIVAL PC7-548**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B02-0333
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/30/2001**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRICAL GENERATOR FOR CARNIVAL**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-1081
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/9/2001**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRIC GENERATOR FOR CIRCUS VARGAS**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B01-0329
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/9/2000**
Permit Type: **ELECTRICAL PERMIT**
Description: **2 GENERATORS FOR BOYS AND GIRLS CLUB CIRCUS VARGAS**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B00-0470
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/12/1995**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRIC FOR CARNIVAL**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B95-0448
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

640 S MELROSE DR

Date: **2/11/2021**
Permit Type:
Description: **PARTIAL GARAGE CONVERSION TO ACCESSORY DWELLING UNIT**

Permit Description: **Building Residential Case**
Work Class:
Proposed Use:
Permit Number: B20-1465
Status: ISSUED
Valuation: $25,550.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**3/31/2016**
Permit Type:	
Description:	**ROOF MOUNT SOLAR P/V SYSTEM**
Permit Description:	**Building Misc - Photovoltaic System (PV)**
Work Class:	
Proposed Use:	
Permit Number:	B16-0610
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CALIFORNIA SOLAR SYSTEMS INC

Date:	**9/22/2005**
Permit Type:	**FENCE PERMIT**
Description:	**NO FEE FENCE PERMIT # 1238. 05/26/2004. 3' x 85' BLOCK WALL**
Permit Description:	
Work Class:	RESIDENTIAL FENCE
Proposed Use:	
Permit Number:	D05-1235
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/20/2000**
Permit Type:	**PLUMBING PERMIT**
Description:	**ELECTRIC WATER HEATER REPLACEMENT 50 GALLON**
Permit Description:	
Work Class:	
Proposed Use:	
Permit Number:	B00-0507
Status:	FINAL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&J FOSTER

ADJOINING PROPERTY FINDINGS

Date: **11/24/1998**
Permit Type: **PLUMBING PERMIT**
Description: **WATER HEATER REPLACEMENT**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B98-1496
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name: A&J FOSTER

S MELROSE DR - BREEZE HILL PARK

645 S MELROSE DR - BREEZE HILL PARK

Date: **8/17/2015**
Permit Type:
Description: **1,600 SF SHADE STRUCTURE OVER EXISTING TOT LOT**

Permit Description: **Building Commercial Case**
Work Class:
Proposed Use:
Permit Number: B15-1548
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ZASUETA CONTRACTING INC

ADJOINING PROPERTY FINDINGS

S MELROSE DRIVE

511 S MELROSE DRIVE

Date: **2/23/1995**
Permit Type: **ELECTRICAL PERMIT**
Description: **TEMPORARY POWER POLE FOR SNACK BAR**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B95-0190
Status: VOID
Valuation: $0.00
Contractor Company:
Contractor Name: S & L ELECTRIC

Date: **10/13/1994**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRICAL PERMIT FOR ANNUAL CARNIVAL**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B94-0993
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/28/1994**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRIC FOR CARNIVAL**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B94-0392
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/26/1993**
Permit Type: **ELECTRICAL PERMIT**
Description: **ELECTRIC FOR CARNIVAL**

Permit Description:
Work Class:
Proposed Use:
Permit Number: B93-0452
Status: FINAL
Valuation: $0.00
Contractor Company:
Contractor Name:

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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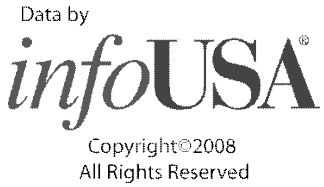

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☑	EDR Digital Archive
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1986	☑	☑	Haines Criss-Cross Directory
1982	☑	☑	Haines Criss-Cross Directory
1979	☑	☑	Haines Criss-Cross Directory
1975	☑	☑	Haines Criss-Cross Directory
1971	☑	☑	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

S Melrose Drive/Matagual Drive
Vista, CA 92081

Year	*CD Image*	*Source*
S MELROSE DR		
2017	pg A4	EDR Digital Archive
2014	pg A7	EDR Digital Archive
2010	pg A10	EDR Digital Archive
2005	pg A14	EDR Digital Archive
2000	pg A18	EDR Digital Archive
1995	pg A22	EDR Digital Archive
1992	pg A24	EDR Digital Archive
1986	pg A26	Haines Criss-Cross Directory
1982	pg A29	Haines Criss-Cross Directory
1982	pg A30	Haines Criss-Cross Directory
1979	pg A32	Haines Criss-Cross Directory
1975	pg A34	Haines Criss-Cross Directory
1971	pg A36	Haines Criss-Cross Directory

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.5
July 01, 2021

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
MATAGUAL DR		
2017	pg. A2	EDR Digital Archive
2014	pg. A5	EDR Digital Archive
2010	pg. A8	EDR Digital Archive
2005	pg. A12	EDR Digital Archive
2000	pg. A16	EDR Digital Archive
1995	pg. A20	EDR Digital Archive
1992	pg. A23	EDR Digital Archive
1986	pg. A25	Haines Criss-Cross Directory
1982	pg. A27	Haines Criss-Cross Directory
1982	pg. A28	Haines Criss-Cross Directory
1979	pg. A31	Haines Criss-Cross Directory
1975	pg. A33	Haines Criss-Cross Directory
1971	pg. A35	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MATAGUAL DR 2017

544	BOWMAN, JOSH
545	SCHRANDT, EDWARD T
555	BARNES, WESTON E
558	WEST, PEDRO A
575	MUJICA, JOSE D
602	MAGGOS, JOHN A
607	MCCREDIE, SCOTT A
612	CASSIDY, PAUL J
620	HENRY, ROBERT J
621	JENSEN, KRISTIN R
638	NIEDERKORN, JEFFREY M
639	UNDHEIM, ROBERT N
648	BRIJALBA, AMANDA
653	CLARKE, JOSEPH P
658	ALGER, KEITH W
660	CALLAHAN, JOHN F
662	SCHLEICHER, RICHARD P
663	HARDING, COREY W
664	BROOKSHIRE, CASEY N
665	SMITH, TIMOTHY G
667	WILSON, TYLER
668	GALLUCCI, ANIELLO J
670	MASONER, BLAKE B
671	SLIVNIK, AUGUST L
672	DUFFY, PATRICK J
676	GRANAAS, RANDALL S
680	BROOKS, BOB D
681	SQUIRES, DONALD C
683	PARUOLO, SALVATORE L
696	SLIVNIK, MONICA E
704	TERRY, COREY
719	SIMMONDS, JAMES W
720	DINSMORE, DAVID E
730	CATALAN, ROXANNA
731	PROFETA, JOSEPH G
732	LAVASANI, MEHDI M
734	MUELLER, KIRK R
746	MAGNERS, SUE M
749	REITMEIER, ROBERT A
753	KING, DEBBIE J
767	LENTO, LUCIA A
777	STJULIEN, DELL L
808	PRICE, MICHAEL E
812	CUNNINGHAM, KEITH G
816	ARMSTRONG, DAVID
822	EISENBRAUN, MATT
	R D CONSTRUCTION INC
824	FAVRON, GARY G
827	SCHULTE, BONNIE J
828	SCOTT, DANIEL N

Target Street	Cross Street	Source
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MATAGUAL DR 2017 (Cont'd)

830	MEADE, CHRISTOPHER W
836	CHINO, KAZUO
842	BLANCO, CESAR G

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S MELROSE DR 2017

400	A & A BAIL BONDS
	CHRISTOPH LAW OFFICES
	ORIENTAL MEDICAL ARTS
	VISTA BAIL BONDS
	WILLIAM R CHRISTOPH
410	A & A BAIL BONDS
	PAUL V L CAMPO ATTORNEY AT LAW
	PIZITZ TODD PHD CLINICAL & FOREN
	PROFESSIONAL SOLUTIONSSCOTT MORRIS
	RIGHT AT HOME CARLSBAD
425	OGGIS PIZZA & BREWING CO
435	CHARLES RODGERS DDS
	DO DARREN DDS
	THE ORIGINAL PANCAKE HOUSE
	VISTA DENTAL GROUP
440	ITT EDUCATIONAL SERVICES
	WINET PATRICK & WEAVER
450	PRIMARY CARE ASSOCIATES MEDICAL GROU
	QUALITY DISCOUNT ICE CREAM DISTRIBUT
	SPROTTE WATSON ARCHITECTURE & PLANNI
485	AT&T
	MELROSE SPA
	PROFESSIONAIL
	THAI ONE ON
490	UNITED METHODIST CHURCH
495	EL POLLO LOCO
560	LIVING FAITH CHRISTIAN CENTER INC
610	GERALD MOORE DDS
	MOORE GERALD DDS
620	ALEXANDER A SABET DDS
	CORBETT BRADLEY R LAW OFFICES
	DANIEL P GUIDERA DDS
	FARMERS AGENCY NORTH
	GUIDERA, DANIEL P
	NEWPORT COAST BAIL BONDS
	WIZARD BAIL BONDS
	WIZARD BAIL BONDS INC
625	COMERICA BANK
630	DENTAL CARE & LASER IMPLANT CENTER
	MAK, MICHAEL C
	MICHAEL MAKSIM DDS
631	LIBERTY TAX SERVICE
	SUBMARINA CALIFORNIA SUBS
635	REDBOX
640	BROWN, JACK C
713	CHURCH OF CHRIST
714	LANGEN, JOEL V
734	OLSEN, MICHAEL R

Target Street	Cross Street	Source
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MATAGUAL DR 2014

544	TURALBA, RODOLFO A
545	SHELBY, PAUL M
555	BARNES, WESTON E
558	WEST, PEDRO A
575	MUJICA, JOSE D
602	LAURITZEN, MARTHA M
607	MCCREDIE, SCOTT A
612	CASSIDY, PAUL J
620	HENRY, ROBERT J
621	KREWSON, DUANE L
627	DEPIES, NICHOLAS P
638	NIEDERKORN, JEFFREY M
639	UNDHEIM, ROBERT N
645	OCCUPANT UNKNOWN,
647	LUTU, SIALIITU
648	KARLMAN, ANDERS
652	KENT, THOMAS
653	CLARKE, JOSEPH P
656	OCCUPANT UNKNOWN,
658	PRAGER, ROBERT B
660	CALLAHAN, JOHN F
662	OCCUPANT UNKNOWN,
663	HARDING, COREY W
664	BROOKSHIRE, CASEY N
665	SMITH, MAYUMI
667	WILSON, TYLER
668	GALLUCCI, ANIELLO J
670	MASONER, MARTIN R
671	SLIVNIK, AUGUST L
672	EIDEN, JONCANNON R
676	GRANAAS, RANDALL S
680	BROOKS, BOB D
681	AYUB, OSCAR A
683	PARUOLO, SALVATORE L
696	SLIVNIK, MONICA E
704	DURAN, EDWARD J
719	CURLEY, LOUISE G
720	DINSMORE, DAVID E
723	OCCUPANT UNKNOWN,
730	THOMPSON, ABRAHAM A
731	CYR, GERALD N
732	LAVASANI, MEHDI M
733	OCCUPANT UNKNOWN,
734	MUELLER POOL & SPA
	MUELLER, KIRK R
736	CALLAWAY, DELMER D
746	MAGNERS, KURT D
748	METCALFE, EARL R
749	REITMEIER, ROBERT A
753	KING, DEBBIE J

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MATAGUAL DR 2014 (Cont'd)

767	RATHINEM, ANAND
771	RATELLE, SYLVIO J
777	STJULIEN, DELL L
808	PRICE, MICHAEL E
812	CUNNINGHAM, KEITH G
816	ALLEN, MARITA V
822	R D CONSTRUCTION INC
	SCHULZE, RICHARD N
824	FAVRON, GARY G
827	DJIRBANDEE, MOHAMMAD A
828	SCOTT, DANIEL N
830	MANOUKIAN, SAMUEL A
836	CHINO, KAZUO
842	BLANCO, CESAR G

Target Street	Cross Street	Source
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S MELROSE DR 2014

400	ATTORNEY WINIFRED WHITAKER
	CHRISTOPH LAW OFFICES
	CHRISTOPH NICHOLAS W
	ELLIOTT & ELLIOTT LAW OFFICES OF
	ELLIOTT KEN ATTY
	INVESTIGATIONS PLUS
	SULLIVAN MEGGIN OMD L AC
	VISTA BAIL BONDS
	WHITAKER WINIFRED ATTORNEY AT LAW
	WILLIAM R CHRISTOPH
410	MURPHY SHARON
	PIZITZ TODD PHD CLINICAL & FORENSI
	PROFESSIONAL SOLUTIONSSCOTT MORRIS
435	CHARLES RODGERS DDS
	DO DARREN T DDS
	RODGERS CHAS DDS
	THE ORIGINAL PANCAKE HOUSE
	VISTA DENTAL GROUP
440	ITT EDUCATIONAL SERVICES
	LENHOFF TAX & FINANCIAL SERVICES
	WINET PATRICK & WEAVER ATTYS
450	PRIMARY CARE ASSOCIATES MEDICAL GROU
	QUALITY DISCOUNT ICE CREAM DISTRIBUT
	SPROTTE WATSON ARCHITECTURE & PLANNI
485	AT & T BUSINESS PHONE SERVICE
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	PROFESSIONAIL
	THAI ONE ON
490	UNITED METHODIST CHURCH
495	EL POLLO LOCO
610	MOORE GERALD DDS
620	FARMERS AGENCY NORTH
	GUIDERA, DANIEL P
	LOZUK ROBERT P DDS
	SABET ALEXANDER A DDS
	WIZARD BAIL BONDS
	WIZARD BAIL BONDS INC
625	COMERICA BANK
630	DENTAL CARE & LASER IMPLANT CENTER
	MAKSIM MICHAEL DDS
631	HUTCHINS PRINTING
	KINGS NORTH COUNTRY STATIONERS
	LIBERTY TAX SERVICE
	LIBERTY TAX SEVICE
	POISE HAIR SALON
	VIA SICILIA
640	FLURETT, JOSHUA D
713	CHURCH OF CHRIST
714	LANGEN, JOEL V
734	OLSEN, MICHAEL R

Target Street	Cross Street	Source
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MATAGUAL DR 2010

544	BOWMAN, JOSHUA D
545	SHELBY, PAUL M
555	BARNES, WESTON
558	WEST, PEDRO A
575	HARR, JEFFREY D
602	RODRIGUEZ, MANUEL J
607	LUDWICK, CLIFFORD W
612	CASSIDY, PAUL J
620	HENRY, ORMOND H
621	KREWSON, DUANE L
627	DEPIES, NICHOLAS P
638	NIEDERKORN, JEFFREY M
639	UNDHEIM, ROBERT N
645	EKMAN, DAVID W
647	LUTU, SIALIITU
652	PICHETTE, JEFF F
653	CLARKE, JOSEPH P
656	OCCUPANT UNKNOWN,
658	PRAGER, MICHELLE
660	CALLAHAN, JOHN F
662	SWEENEY, GERALD R
663	OCCUPANT UNKNOWN,
664	GINGRAS, RON L
665	MARSH, JOHN C
667	WILSON, KEITH A
668	GALLUCCI, ANIELLO J
670	MASONER, MARTIN R
671	SLIVNIK, AUGUST L
672	EIDEN, RICHARD J
676	GRANAAS, RANDALL S
680	BROOKS, BOB D
681	SQUIRES, DONALD C
683	PARUOLO, SALVATORE L
688	MULVEY, KEVIN
696	SLIVNIK, MONICA E
719	CURLEY, LOUISE G
720	WATANABE, TOSHIYO
723	PEARSON, THOMAS P
730	NELSON, SAMUEL D
731	CYR, AGNES M
732	LAVASANI, MEHDI M
733	OCCUPANT UNKNOWN,
734	MUELLER, K
736	CALLAWAY, JUDITH A
746	MAGNERS, KURT D
748	DO, ANHTAUN N
749	REITMEIER, BURT K
753	KING, MARK J
767	LAYOUN, ARI
771	RATELLE, SYLVIO J

Target Street	Cross Street	Source
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MATAGUAL DR 2010 (Cont'd)

777 OCCUPANT UNKNOWN,
808 ANDREASEN, MILDRED C
812 STAUDT, JEANETTE M
822 SCHULZE, RICHARD N
824 FAVRON, GARY G
827 DJIRBANDEE, MOHAMMAD A
828 SCOTT, DANIEL N
830 MANOUKIAN, SAMUEL A
836 CHINO, KAZUO
842 BLANCO, CESAR G

Target Street	Cross Street	Source
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S MELROSE DR 2010

400	A & A BAIL BONDS
	A BETTER CHOICE
	CHRISTOPH NICHOLAS W
	CHRISTOPH WILLIAM R
	DAVID PFLAUM LAW OFFICES
	ELLIOTT & ELLIOTT LAW OFFICES
	GIRLS INC
	HERRELL, CHARLES A
	JAMES N DICKS LAW OFFICES
	KHASHAYAR LAW GROUP
	MUELLER WILLIAM K
	ORIENTAL MEDICAL ARTS
	THOMPSON, JR
	VISTA BAIL BONDS
	WINIFRED WHITAKER LAW OFFICES
410	CORNERSTONE TAX ACCOUNTING
	ESCONDIDO SERVICE OF PROCESS
	MELROSE LAW CTR
	MILLER JEFFREY S MD
	MURPHY SHARON M
	NORTH COUNTY RADIOLOGY
	OCEANSIDE SERVICE OF PROCESS
	PIZITZ TODD PHD
	PROFESSIONAL SOLUTIONS
	SAN DIEGO CNTY CHILD ADVOCACY
	SAN DIEGO COUNTY ALTERNATE
	SAXON RICHARD R MD
	TERRY S ALLEN LAW OFC
425	OGGIS PIZZA & BREWING CO
435	ORIGINAL PANCAKE HOUSE
	VISTA DENTAL GROUP
440	ALL AMERICAN REVERSE ESCROW
	APC FERRANTE LAW OFFICE
	C & W PROPERTIES INC
	CALIFORNIA CREDIT SVC
	FIDELITY NATIONAL TITLE
	LNL FINANCIAL GROUP
	WINET PATRICK & WEAVER
	WINET, PATRICK
450	AMEDISYS HOME HEALTH
	DCS MORTGAGE
	SPROTTE WATSON ARCHITECTURE
485	PAPA JOHNS PIZZA
	PHO EVER
	PROFESSIONAIL
	THAI ONE ON
490	UNITED METHODIST CHURCH VISTA
495	EL POLLO LOCO
560	ANSWERSA BOOK STORE
	CENTER FOR SPIRITUAL DISCOVERY

S MELROSE DR 2010 (Cont'd)

610 BREEZE HILL FAMILY DENTAL CARE
620 FARMERS AGENCY NORTH
GUIDERA DANIEL P DDS
GUIDERA, DANIEL P
LOZUK ROBERT P DDS
MELROSE SPA
SABET ALEXANDER DDS
630 ADVANCED DENTAL CARE
MAK, MICHAEL C
631 DESIGNS BY TRISH
ELEGANT NAILS & SPA
LIBERTY TAX SVC
NORTHSTAR BAILBONDS
POISE HAIR SALON
SUBMARINA CALIFORNIA SUBS
VIA SICILIA
635 MARTINIZING DRY CLEANING
640 ECHEVARRIA, DAVE
713 CHURCH OF CHRIST
714 SCHUPPERT, TIM L
734 OLSEN, MICHAEL

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MATAGUAL DR 2005

536 OCCUPANT UNKNOWN,
SAMOAN CONGREGATIONAL CHURCH
545 PRICE, PHILLIP
555 DEMERY, MARLK D
558 WEST, PEDRO
575 HARR, JEFFREY D
602 REVARD, REX C
607 LUDWICK, CLIFFORD W
612 CASSIDY, PAUL J
620 HENRY, ORMOND H
621 LAUREN PUBLICATIONS
REDFORD, JOHN R
627 DEPIES, NICHOLAS P
636 THE NEW PRODUCT GROUP
638 NEW PRODUCT GROUP
SCULLIN, LAWRENCE E
639 ONNAICO
UNDHEIM, ROBERT N
645 MCNALLY, JOSEPH A
647 OCCUPANT UNKNOWN,
648 EVANS, PATRICK E
652 OCCUPANT UNKNOWN,
653 CLARKE, JOSEPH P
656 LEWKOVICH, GARY N
658 OCCUPANT UNKNOWN,
660 MULVEY, KEVIN W
662 ORDWAY, GRIFFIN G
663 KENNEDY, PAUL R
664 NOVARCPRODUCTS
SCRIPCA, IOLANDA A
665 MARSH, JOHN C
666 JOHNSON, ROBERT
667 WILSON, KEITH A
668 FIRST HORIZON HOME LOANS
GALLUCCI, ANIELLO J
670 MASONER, MARTIN R
671 SLIVNIK, AUGUST L
672 EIDEN, RICHARD J
676 SEVERSON, GORDON C
680 BROOKS, BOB D
681 AYUB, OSCAR
683 PARUOLO, SALVATORE L
688 MULVEY, KEVIN
704 SLIVNIK, MONICA
719 SIMMONDS, JAMES W
720 WATANABE, GEORGE
723 PEARSON, THOMAS P
730 NELSON, SAMUEL D
731 CYR, AGNES M
732 LAVASANI, MEHDI M

MATAGUAL DR 2005 (Cont'd)

733	OCCUPANT UNKNOWN,
734	MUELLER, KIRK R
736	CALLAWAY, JUDITH A
746	MAGNERS, KURT D
749	REITMEIER, BURT K
753	KING, MARK J
767	LAYOUN, SERENA M
771	RATELLE, SYLVIO J
777	OCCUPANT UNKNOWN,
805	OCCUPANT UNKNOWN,
808	ANDREASEN, MILDRED C
812	CUNNINGHAM, JEANETTE M
822	SCHULZE, RICHARD N
824	FAVRON, GARY G
827	DJIRBANDEE, MOHAMMAD A
828	SCOTT, DANIEL N
830	DIAKUN, ROBERTA A
836	CHINO, KAZUO
842	CACERES, TERESA

Target Street	Cross Street	Source
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S MELROSE DR 2005

400	A & A BAIL BONDS / VISTA BAIL BONDS
	A1AA
	ARGOS SCIENTIFIC
	ELL, KEN
	LAW OFFICE / ELLIOTT & ELLIOTT
	LAW OFFICE WINIFRED WHITAKER
	LAW OFFICES OF JAMES N DICKS
	MONTES ROBIN D LAW OFFICE OF
	MUELLER WILLIAM K
	MUELLER, WILLIAM K
	NORTH COAST REALTY GROUP
	PFLAUM DAVID
	PFLAUM DAVID M ATTORNEY
	PFLAUM, DAVID M
	THRONE, DAPHNE
	URQUIA, MICHELLE S
410	CERTIFIED CLAIMS SERVICES INC
	CHANDLER, DEAN G
	CHARLES, CARIM A
	CURTIS, PAUL H
	DICKS, JAMES N
	HALCYON PROPERTIES
	KIP, SAMUEL
	LAW OFFICE OF TERRY S ALLEN
	LENDER E SOURCE INC
	MEDICIST BILLING CONSULTANTS
	MILLER EXECUTOR CONSULTING INC
	NORTH COUNTY RADIOLOGY
	NORTH COUNTY RADIOLOGY MEDICAL GROUP
	SANFORD ROSE ASSOCIATES CARLSBAD
	SHAW, DONALD J
425	OGGIS PIZZA & BREWING CO VISTA
435	VISTA DENTAL GROUP
440	CHRISTOPHER A FERRANTE APC
	FIDELITY NATIONAL TITLE
	FIRST HORIZON HOME LOANS
	FIRST HORIZON INTERNET MARKETING
	GEROGE TUMA
	INFINITY INSURANCE CO
	LOANSTAR FINANCIAL SERVICE
	MAPPING LOVE LLC
	TENDER LOVING CARE STAFF BUILDERS
	VIRTUAL SOLUTIONS INC
	WINET PATRICK & WEAVER
450	LOZANO, SMITH A
	SMITH LOZANO
	SPROTTE WATSON ARCHITECTURE
485	HOUSE OF THANON THAI CUISINE
	KINGS GARDEN
	QUIZNOS SUB

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S MELROSE DR 2005 (Cont'd)

490	UNITED METHODIST CHURCH OF VISTA
560	FIRST CHURCH OF RELIGIOUS SCIENCE VI
610	BREEZEHILL FAMIL Y DENTAL CARE
	MOORE ORTHODONTIC PC
620	GUIDERA DANIEL P DDS
	GUIDERA, DANIEL P
	SABET ALEXANDER A DDS
	SIEGEL, BORIS
624	COUNTRY DAY SCHOOL INC
630	LOZUK ROBERT P DDS
	MAKSIM MICHAEL DDS
640	CALHOUN, WAYNE M
	TOP
713	MELROSE CHURCH OF CHRIST
	OCCUPANT UNKNOWN,
714	SCHUPPERT, TIM L
715	MELROSE CHURCH OF CHRIST
718	VACCARO, JORGE
734	OLSEN, ROBERT

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-	✓	EDR Digital Archive

MATAGUAL DR 2000

536 SCHINDLER, DIANE I
544 OCCUPANT UNKNOWN,
545 OCCUPANT UNKNOWN,
555 HAYNE, JOHN S
558 AINSLIE, FRANCIS O
WEST, PEDRO
575 OCCUPANT UNKNOWN,
602 CURTIN, JEROME
607 LUDWICK, C W
612 CASSIDY, ELAINE
620 HENRY, ORMOND H
621 FIELDS, LARRY
622 JENS, BONNEY L
JOHNSON, LEWIS W
627 OCCUPANT UNKNOWN,
638 BARRETO, PENNY M
639 UNDHEIM, DOBRILA
645 MCNALLY, EDWARD
647 MEYER, VINCENT A
648 OCCUPANT UNKNOWN,
652 OCCUPANT UNKNOWN,
653 OCCUPANT UNKNOWN,
656 LEWKOVICH, GARY N
660 MULVEY, FRANK
662 ORDWAY, GRIFFIN
663 BAUER, M S
664 GINGRAS, RONALD
665 OCCUPANT UNKNOWN,
666 JOHNSON, ROBERT C
667 WILSON, KEITH A
668 OCCUPANT UNKNOWN,
671 SLIVNIK, AUGUST L
672 EIDEN, RICHARD
676 SEVERSON, GORDON
680 HENDERSON, ROBERT E
683 PARUOLO, LINDA L
704 SILVNIK, C
719 SIMMONDS, JAMES W
720 WATANABE, GEORGE
723 PEARSON, JOHN C
730 KOVALCIK, STEPHEN P
731 OCCUPANT UNKNOWN,
732 LAVASANI, MEHDI
733 OCCUPANT UNKNOWN,
734 MUELLER, KIRK
736 CALLAWAY, DON
HUTSELL, JUDI
746 DIEBEL, EDGAR T
748 KOOPMAN, E P
749 REITMEIER, BURT K

MATAGUAL DR 2000 (Cont'd)

750	OCCUPANT UNKNOWN,
753	KING, DEBBIE
767	LAYOUN, SERENA
771	RATELLE, SYLVIO J
805	BARNARD, EARL
812	STAUDT, J M
816	ALLEN, MARITA V
822	SCHULZE, RICHARD N
824	WHITAKER, RAYMOND A
828	SCOTT, DANIEL
830	CONNELL, ROBERT P
836	CHINO, KAZUO

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S MELROSE DR 2000

375 MILLER, AMANDA
387 OCCUPANT UNKNOWN,
400 A & A BAIL BONDS
A 1AA
A BETTER CHOICE
ATTORNEY JAMES W WESSEL
ATTORNEY PETER M LISS
ATTORNEY WINIFRED WHITAKER
ATTORNEYS WHITAKER & LOPEZ
BAIL BONDS BY VISTA BAIL BONDS
BURKLAND SUSAN LAW OFFICE OF
CALIFORNIA DIVORCE & MEDIATION CENTER
CHRISTOPH WILLIAM R CRIMINAL DEFENSE
CRIMINAL DEFENSE ATTORNEY PETER M LISS
DAVID PFLAUM
DEMPSEY CHERYL TOMAC
DEMPSEY, CHERYL
DEST CROIX MAUREEN M ATTORNEY
DICKS JAMES N LAW OFFICES OF
DICKS, J
DONALD M DEAN & ASSOCIATES
DROEGEMUELLER B DEAN ATTORNEY AT LAW
ELLIOTT & ELLIOTT LAW OFFICES OF
FINN, JESSICA S
IN & OUT BAIL BONDS
KNUDSEN SAMUEL S LAW OFFICES OF
LAKIER RICHARD S ATTORNEY AT LAW
LISS PETER M CRIMINAL DEFENSE ATTORNEY
MONTES ROBIN D LAW OFFICE OF
MUELLER WILLIAM K ATTORNEY
MURRAY MICHAEL M ATTORNEY
PFLAUM DAVID ATTORNEY
SAN DIEGO COUNTY OF ATTORNEYS CT APPTED OFFICE OF PUB
SAN DIEGO COUNTY OF PUBLIC DEFENDER
THOMAS RICHARD A ATTORNEY
THRONE DAPHNE M ATTORNEY AT LAW
TOMAC CHERYL ATTORNEY
VOGT ERNEST WILLIAM ATTORNEY
VOGT, E
WESSEL JAMES W ATTORNEY AT LAW
WHITAKER WINIFRED ATTORNEY
WHITAKER WINIFRED ATTORNEY AT LAW
ZIMMERMAN, THOMAS
410 ALLEN TERRY S
ANBAR ELIC ATTORNEY AT LAW
CHAPIN FLEMING & WINET ATTORNEYS
KIPPER SAMUEL MD
LEGAL SUPPORT CENTER THE
LEWIS, BARRY L
MITCHELL FRANKLIN J JUDGE SUPR COURT RTRD

S MELROSE DR 2000 (Cont'd)

410	NORTH COUNTY CREDIT ASSOCIATION
	NORTH COUNTY RADIOLOGY
	NORTH COUNTY RADIOLOGY MEDICAL GROUP
	RATEKIN PATTI ATTORNEY
	SAN DIEGO COUNTY OF PUBLIC DEFENDER
	SKAY JACQUELINE M ATTORNEY AT LAW
	WINET PATRICK & WEAVER ATTORNEYS
411	DUARTE, FELIPE
	TOVAR, JOSE S
417	OCCUPANT UNKNOWN,
423	OCCUPANT UNKNOWN,
460	OCCUPANT UNKNOWN,
485	OCCUPANT UNKNOWN,
515	OCCUPANT UNKNOWN,
560	1ST CHURCH OF RELIGIOUS SCI VIS ANSWERS A BOOK ST
	1ST CHURCH OF RELIGIOUS SCI VIS INSPIRATION LINE
	ANSWERS A BOOK STORE
	CHURCH OF RELIGIOUS SCIENCE CHURCH
	CHURCH OF RELIGIOUS SCIENCE DIAL A PRAYER
	DIAL A PRAYER
	FIRST CHURCH OF RELIGIOUS SCIENCE VISTA CHURCH
	RELIGIOUS SCIENCE FIRST CHURCH OF VISTA
577	MENDOZA, MIGUEL A
581	MARISCAL, CESAR
610	BREEZE HILL FAMILY DENTAL CARE
620	GUIDERA DANIEL P DDS
	SABET ALEXANDER DDS
	SABET, A
	VISTA DENTAL GROUP
622	HINNENKAMP, ROBIN
624	BARGY VIRGINIA M
	COUNTRY DAY SCHOOL INCORPORATED
	OCCUPANT UNKNOWN,
630	KING, CHERRI
	MAKS MICHAEL DDS
	MAKSIM, MICHAEL C
640	BAILEY, M L
641	MARCIAL, JORGE R
661	PACHECO, CARLOS J
713	CHURCH OF CHRIST
714	MEEKS, LESLIE W
734	OLSEN, ROBERT

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MATAGUAL DR 1995

531	MCDANIEL, WALT
535	TICO, DOUGLAS JR
536	MANN, MICKEY
544	OCCUPANT UNKNOWNN
555	RENEE, NICOLE
558	AINSLIE, F O
	WEST, PEDRO JR
575	OCCUPANT UNKNOWNN
602	BENCHLEY, EDWARD J
607	OCCUPANT UNKNOWNN
612	CASSIDY, ELAINE
620	HENRY, ORMOND H
621	FIELDS, LARRY
622	JENS, BONNEY L
	JOHNSON, LEWIS W
627	OCCUPANT UNKNOWNN
638	MARBERG, EDWIN
639	UNDHEIM, NJAL
645	MCNALLY, EDWARD
647	PELTZER, VERNON A
648	EWP CONSTRUCTION INC
	OCCUPANT UNKNOWNN
653	CINTRON, JUAN A
656	LEWKOVICH, GARY N
658	OCCUPANT UNKNOWNN
660	MULVEY, FRANK
662	ORDWAY, GRIFF
663	HAMLIN, JEFFREY
664	GINGRAS, RONALD
665	HULL, CHRIS
666	EDWARDS, JULIE
	JOHNSON, ROBERT C
667	WILSON, KEITH A
668	GORDON, DAVID
671	OCCUPANT UNKNOWNN
672	EIDEN, RICHARD
676	OCCUPANT UNKNOWNN
680	HENDERSON, ROBERT E
681	OCCUPANT UNKNOWNN
683	OCCUPANT UNKNOWNN
704	SLIVNIK, C D
719	OCCUPANT UNKNOWNN
720	WATANABE, GEORGE
723	OCCUPANT UNKNOWNN
730	OCCUPANT UNKNOWNN
731	CYR, AGNES M
732	OCCUPANT UNKNOWNN
733	OCCUPANT UNKNOWNN
734	OCCUPANT UNKNOWNN
736	CALLAWAY, DON

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-	✓	EDR Digital Archive

MATAGUAL DR 1995 (Cont'd)

736	HUTSELL, JUDI
746	DIEBEL, EDGAR T
748	OCCUPANT UNKNOWNN
750	OCCUPANT UNKNOWNN
753	KING, MARK
771	RATELLE, SYLVIO J
777	OCCUPANT UNKNOWNN
805	BARNARD, JEANILE
808	OCCUPANT UNKNOWNN
812	OCCUPANT UNKNOWNN
816	ALLEN, MARITA V
822	SCHULZE, RICHARD N
824	FAVRON, GARY
	WHITAKER, RAY
827	MAYER, ESTELLA
828	SCOTT, DANIEL
836	CHINO, KAZUO
842	COURSONS ANTENNA SVC

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S MELROSE DR 1995

400	BEURY, DONALD
	CHERYL L TOMAC
	CHERYL TOMAC
	CLEWS, JACOB
	DAPHNE M THRONE
	DROEGERMUELLER & WINTERBOTTOM
	ELLIOTT & ELLIOTT LAW OFCS
	ERNEST W VOGT
	IN & OUT BAIL BONDS
	JAMES N DICKS LAW OFFICES
	LOPEZ & PAPENHAUSEN INVSTGTNS
	MARGARET B REYNOLDS CPA
	MAUREEN M DE ST CROIX
	RICHARD DUQUETTE LAW OFFICES
	SHARON F WOOD SECRETARIAL SVC
	STEVEN S KONDO
	TERRY S ALLEN LAW OFFICES
	THOMAS W SMITH
	VISTA BAIL BONDS
	VISTA PUBLIC DEFENDER
	VOGT, ERNEST
	WILLIAM K MUELLER
	WILLIAM R CHRISTOPH
410	CHAPIN FLENMING & WINET
	JACQUELINE SKAY
	JANET L PRATT
	NORTH COUNTY CREDIT ASSN
	NORTH COUNTY RADIOLOGY
	NORTH COUNTY RADIOLOGY GROUP
	WHITAKER, W
560	ANSWERS A BOOK STORE
	DIAL A PRAYER
	FIRST CHURCH RELIGIOUS SCIENCE
611	S & S GENERAL CONTRACTORS
624	COUNTRY DAY SCHOOL INC
640	DELA, ANTONIO M
713	CHURCH OF CHRIST
	OCCUPANT UNKNOWNN
714	OCCUPANT UNKNOWNN

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MATAGUAL DR 1992

544	ZAPP, MORRIS
555	RICHARDSON, CLYDE E
602	BENCHLEY, EDWARD J
612	CASSIDY, PAUL J
620	HENRY, ORMOND H
621	FIELDS, LARRY
	WACHTEL, TINA L
622	JENS, BONNEY L
	JOHNSON, LEWIS W
638	KORINER, PETER J
639	DOBBINS, EARL K
645	MCNALLY, EDWARD
648	E W P CONSTRUCTION
652	VISTA PLASTERING
658	PRAGER, TERESE F
660	MULVEY, FRANK
	VELASTEGUI, MILTON E
665	HULL, CHRIS
666	EDWARDS, JULIE
	JOHNSON, ROBERT C
667	WILLIAMS, JEROME
668	GORDON, DAVID
676	SEVERSON, GORDON
680	HENDERSON, ROBERT E
720	WATANABE, GEORGE
731	DEER, HERBERT A
733	STEPHENS, JOE
746	DIEBEL, EDGAR T
748	CONDON, WILLIAM L
753	KING, MARK
771	RATELLE, SYLVIO J
822	SCHULZE, RICHARD N
828	SCOTT, DANIEL
836	CHINO, KAZUO
842	PIRRAGLIO, DAVID
7361	HUTSELL, JUDI
7363	CALLAWAY, DON

Target Street	Cross Street	Source
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S MELROSE DR 1992

400	A&A BAIL BONDS
	BENNETT ROBT M ATTY
	C M R CLLCTNS MDCL
	CHRISTOPH WM R ATTY
	COMSTOCK S INVSTGTN
	DESTCROIX M M ATTY
	DICKS JAMES N LAW
	DUQUETTE R L ATTY
	ENGEL THOMAS F
	HUNT ERNEST JR ATTY
	IN&OUT BAIL BONDS
	KONDO STEVEN S ATTY
	LOS ANGELES TIMES
	REYNOLDS M B CPA
	REYNOLDS, M B
	SD CO ATTYS
	SMITH THOMAS W ATTY
	THRONE DAPHNE ATTY
	TOMAC CHERYL ATTY
	VOGT ERNEST W ATTY
	WESTON HERBERT ATTY
560	ANSWERS A BOOK STR
	RELIGS SCN 1ST CH
624	BARGY, V M
	COUNTRY DAY SCHL
630	SCHWARBERG, GAYLORD
713	CHURCH OF CHRIST
714	MEEKS, LESLIE W

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MATAGUAL DR 1986

MATAGUAL DR 92083
VISTA

531	XXXX	00	
533	WALKER WM	724-9413	7
535	XXXX	00	
535	SHELTON WILSON E	724-4013	
544	ZAPP MORRIS	724-4057	7
545	XXXX	00	
553	XXXX	00	
555	RICHARDSON CLYDE E	724-4458	
558	PORTER MEL	726-2828	7
575	BARRIOS LOUIS A	724-0589	
602	BENCHLEY EDW J	724-4587	
607	VANVALKENBURG WM	724-0874	3
612	CASSIDY ELAINE	724-1231	
620	HENRY O H	724-6207	
621	XXXX	00	
622	JOHNSON LEWIS W	724-4153	
	VISTA PLASTERING	724-4153	
A	JENS BONNEY L	758-4466	4
627	DEPIES ROBT N	758-0652	
638	KORINER PETER J	724-8940	
639	UNGHEIM NJAL	724-5761	+8
645	MCNALLY EDW	724-2408	8
647	XXXX	00	
648	MCDONALD DOROTHY I	724-5595	
	MCDONALD FLOYD	724-5595	3
653	WALKER L A	726-6549	+8
660	KUNZE KENNETH O	724-5789	3
663	KENNEDY PAUL F	941-0727	5
665	HULL CHRIS	758-8012	
	HULL RONDA	758-8012	5
666	EDWARDS JULIE K	941-3555	+8
	JOHNSON ROBT C	941-4485	5
667	WILLIAMS COLLEEN	758-5523	5
	WILLIAMS JEROME	758-5523	
668	GORDON DAVID	941-1049	3
671	ZANDER CHAS	726-7140	
	ZANDER HELEN	726-7140	4
672	XXXX	00	
675	SEVERSON GORDON	726-6540	4
680	HENDERSON ROBT E	941-0752	4
681	KIESEL FREDERICH J	726-5489	
683	XXXX	00	
704	GALFRE ADELA	758-5624	9
719	XXXX	00	
720	WATANABE GEO	724-7693	
730	TIESEN FRANK	724-7184	
	TIESEN MARK	941-6733	+8
731	DEER HERBERT A	724-4658	
732	HOISINGTON L J	724-3913	5
733	STEPHENS JOE	726-0906	+8
736	HUTSELL JAS	941-3424	4
746	DIEBEL EDGAR T	726-5502	0
748	CONDON WILLIAM L	726-9184	9
749	REITMEIER BURT K	724-4075	
753	XXXX	00	
764	XXXX	00	
767	REITMEIER AL	724-4806	
771	RATELLE S J	726-9504	8
805	XXXX	00	
812	SCHNETZ BILL	724-2784	1
822	CHOWNING VICTOR W	726-2706	8
824	CAMBRIDGE COUNSELOR	941-4081	4
	QUINN DIANE	941-4081	
	QUINN EDWARD	941-4081	2
827	MAGANA JAIME	758-0347	
	MAGANA LOIS	758-0347	4
828	SCOTT DANL	941-0239	5
830	CONNELL ROBT P	726-4579	
836	CHINO KAZUO MRS	724-0283	
842	PIRRAGLIO DAVID	946-0830	5
*	4 BUS 66 RES	5 NEW	

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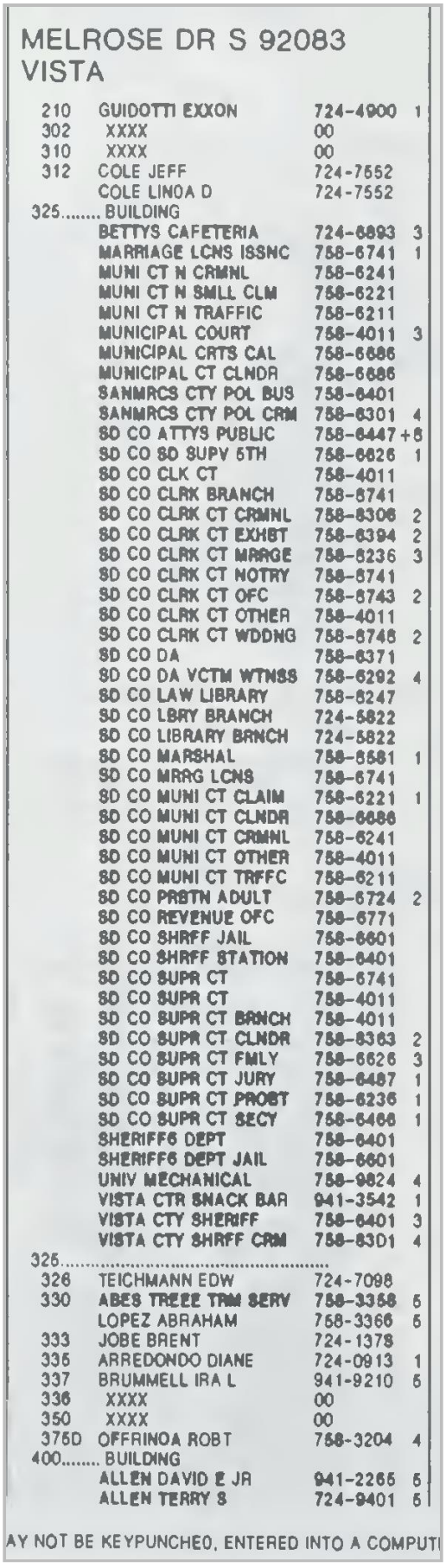
S MELROSE DR 1986



MELROSE DR S 92083
VISTA

210	GUIDOTTI EXXON	724-4900	1
302	XXXX	00	
310	XXXX	00	
312	COLE JEFF	724-7552	
	COLE LINDA D	724-7552	
325.....	BUILDING		
	BETTYS CAFETERIA	724-6893	3
	MARRIAGE LCNS ISSNC	758-6741	1
	MUNI CT N CRMNL	758-6241	
	MUNI CT N SMLL CLM	758-6221	
	MUNI CT N TRAFFIC	758-6211	
	MUNICIPAL COURT	758-4011	3
	MUNICIPAL CRTS CAL	758-6686	
	MUNICIPAL CT CLNDR	758-6686	
	SANMRCS CTY POL BUS	758-6401	
	SANMRCS CTY POL CRM	758-6301	4
	SD CO ATTYS PUBLIC	758-6447	+6
	SD CO SD SUPV 5TH	758-6626	1
	SD CO CLK CT	758-4011	
	SD CO CLRK BRANCH	758-6741	
	SD CO CLRK CT CRMNL	758-6306	2
	SD CO CLRK CT EXHBT	758-6394	2
	SD CO CLRK CT MRRGE	758-6236	3
	SD CO CLRK CT NOTRY	758-6741	
	SD CO CLRK CT OFC	758-6743	2
	SD CO CLRK CT OTHER	758-4011	
	SD CO CLRK CT WDDNG	758-6748	2
	SD CO DA	758-6371	
	SD CO DA VCTM WTNSS	758-6292	4
	SD CO LAW LIBRARY	758-6247	
	SD CO LBRY BRANCH	724-5822	
	SD CO LIBRARY BRNCH	724-5822	
	SD CO MARSHAL	758-6581	1
	SD CO MRRG LCNS	758-6741	
	SD CO MUNI CT CLAIM	758-6221	1
	SD CO MUNI CT CLNDR	758-6686	
	SD CO MUNI CT CRMNL	758-6241	
	SD CO MUNI CT OTHER	758-4011	
	SD CO MUNI CT TRFFC	758-6211	
	SD CO PRBTN ADULT	758-6724	2
	SD CO REVENUE OFC	758-6771	
	SD CO SHRFF JAIL	758-6601	
	SD CO SHRFF STATION	758-6401	
	SD CO SUPR CT	758-6741	
	SD CO SUPR CT	758-4011	
	SD CO SUPR CT BRNCH	758-4011	
	SD CO SUPR CT CLNDR	758-6363	2
	SD CO SUPR CT FMLY	758-6626	3
	SD CO SUPR CT JURY	758-6487	1
	SD CO SUPR CT PROBT	758-6236	1
	SD CO SUPR CT SECY	758-6466	1
	SHERIFFS DEPT	758-6401	
	SHERIFFS DEPT JAIL	758-6601	
	UNIV MECHANICAL	758-9824	4
	VISTA CTR SNACK BAR	941-3542	1
	VISTA CTY SHERIFF	758-6401	3
	VISTA CTY SHRFF CRM	758-6301	4
325.....			
326	TEICHMANN EDW	724-7098	
330	ABES TREEE TRM SERV	758-3358	5
	LOPEZ ABRAHAM	758-3366	5
333	JOBE BRENT	724-1378	
335	ARREDONDO DIANE	724-0913	1
337	BRUMMELL IRA L	941-9210	5
336	XXXX	00	
350	XXXX	00	
375D	OFFRINOA ROBT	758-3204	4
400.....	BUILDING		
	ALLEN DAVID E JR	941-2265	5
	ALLEN TERRY S	724-9401	5

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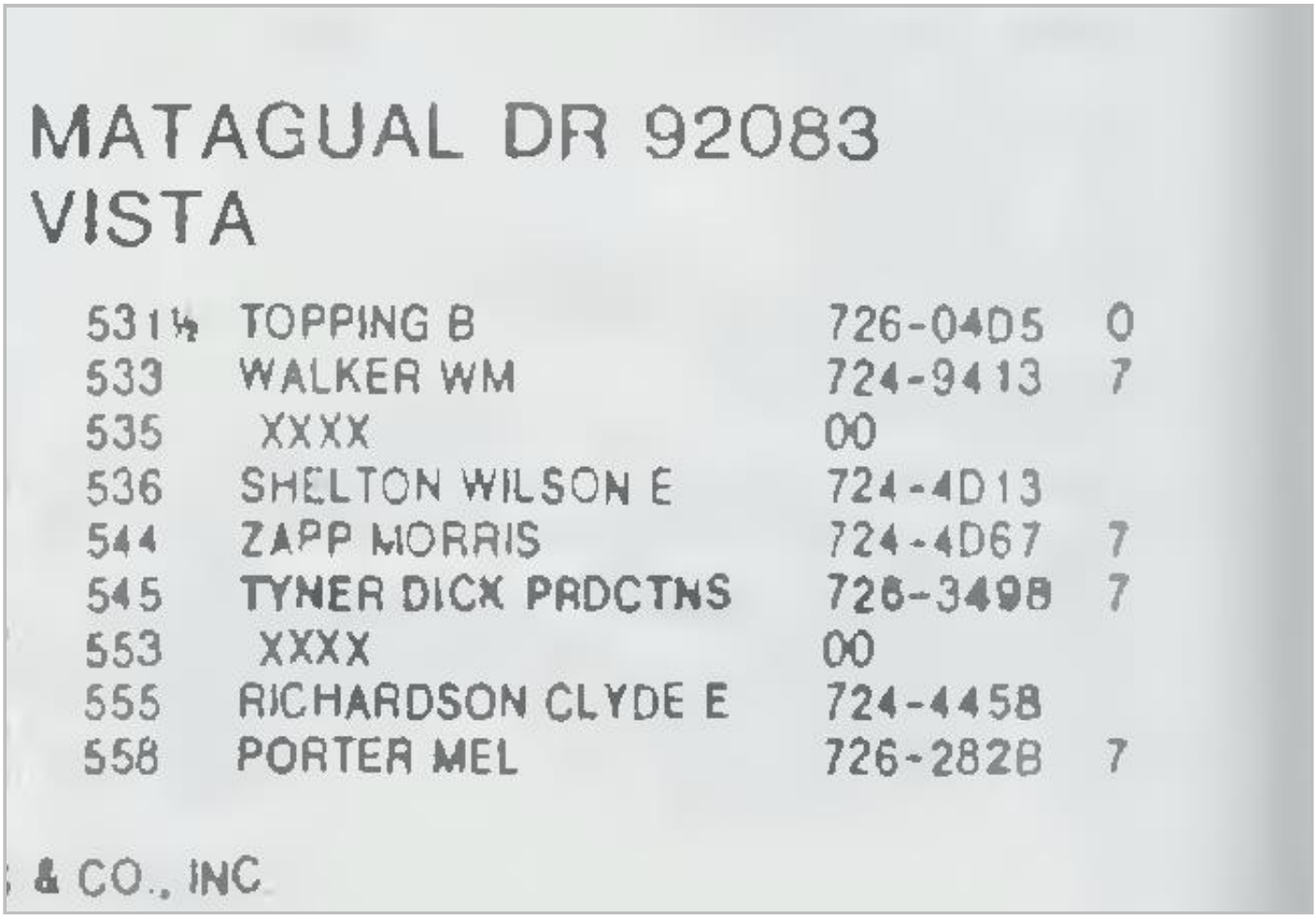
-	✓	Haines Criss-Cross Directory

MATAGUAL DR 1982



MATAGUAL DR 92083
VISTA

531½	TOPPING B	726-04D5	0
533	WALKER WM	724-9413	7
535	XXXX	00	
536	SHELTON WILSON E	724-4D13	
544	ZAPP MORRIS	724-4D67	7
545	TYNER DICK PRDCTNS	726-3498	7
553	XXXX	00	
555	RICHARDSON CLYDE E	724-4458	
558	PORTER MEL	726-282B	7

& CO., INC

Target Street	Cross Street	Source
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MATAGUAL DR 1982

MATAGUAL DR		92083 CONT	
575	BARRIOS LOUIS A	724-0689	4
602	BENCHLEY EDW J	724-4587	
607	XXXX	00	
612	CASSIDY ELAINE	724-1231	
	CASSIDY PAUL J	724-1231	
620	HENRY O H	724-6207	
621	PECK TIM A	726-8617	8
622	JENS BONNEY L	758-4466	+2
	JOHNSON LEWIS W	724-4153	
	VISTA PLASTERING	724-4153	
627	DEPIES ROBT N	758-0662	6
638	KORINER PETER J	724-8940	
639	UNDHEIM NJAL	724-6592	
645	MCNALLY EOW	724-2408	8
647	XXXX	00	
653	GLEASON CHAS M JR	941-4395	1
663	KENNEDY ZACK	726-6625	+2
668	XXXX	00	
672	DRUCKERMAN BEN	724-6017	+2
681	KIESEL ENTERPRISES	758-9210	+2
	KIESEL FREDERICH J	726-6489	5
683	XXXX	00	
704	GALFRE ADELA	758-5624	9
719	FENWICK DEAN	726-1588	9
720	WATANABE GEO	724-7693	
730	TIESEN FRANK	724-7184	3
731	OEER HERBERT A	724-4658	
733	XXXX	00	
736	JONES CHARLIE R	758-2139	+2
746	DIEBEL EDGAR T	726-5502	0
748	CONDON WILLIAM L	726-9184	9
749	REITMEIER BURT K	724-4075	
753	XXXX	00	
764	XXXX	00	
767	REITMEIER AL	724-4806	
771	RATELLE S J	726-9504	8
B05	XXXX	00	
812	SCHNETZ BILL	724-2764	1
	SCHNETZ WM	439-2760	0
822	CHOWNING VICTOR W	726-2706	8
824	QUINN ENTERPRISES	941-4081	+2
827	THOMPSON STEVE	758-0347	+2
830	CONNELL ROBT P	726-4579	
836	CHINO KAZUO MRS	724-0283	
842	PIRRAGLIO DAVID	726-3028	4
NO #	MCDONALD FLOYD A	724-5596	
★	4 BUS 51 RES	7 NEW	

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✓	-	Haines Criss-Cross Directory

S MELROSE DR 1982

MELROSE DR S 92083
VISTA

210	GUIDOTTI EXXON	724-4900	1
302	XXXX	00	
310	KOZLOWSKI BOB A	726-4294	0
312	COLE JEFF	724-7552	7
	COLE LINDA D	724-7552	7
325	BUILDING		
	CO SD CLERK	236-2121	1
	CO SO COURT	236-S09B	1
	MARRIAGE LCNS ISSNC	758-6741	1
	MUNI CT N CIVIL	758-6201	
	MUNI CT N CRMNL	758-6241	
	MUNI CT N SMLL CLM	7S8-6221	
	MUNI CT N TRAFFIC	758-6211	
	MUNICIPAL CT CALNDR	758-6686	+2
	SD CO AREA AGC AGNG	758-6345	1
	SD CO BD SUPVR 5TH	758-6626	1
	SD CO CLERK BUS OFC	758-6743	+2
	SO CO CLERK CRMNL	75B-63D8	+2
	SO CO CLERK EXHIBIT	7SB-6394	+2
	SD CO CLERK MICRFLM	758-8395	+2
	SO CO CLERK RGSTRTN	75B-6741	1
	SO CO CLERK WEDDING	75B-6748	+2
	SD CO CLRK SERVICES	75B-4011	1
	SD CO DIST ATTY	758-6371	1
	SO CO LAW LIBRARY	7S8-6247	1
	SD CO LBRY NORTH CO	724-5622	1
	SD CO LBRY VISTA	724-5507	1
	SO CO MARRIAGE LCNS	758-6744	+2
	SD CO MRSHL MUNI CT	758-6561	1
	SO CO MUNI CT CIVIL	7S8-6201	1
	SD CO MUNI CT CLMS	758-6221	1
	SD CO MUNI CT CLNDR	7S8-8686	1
	SD CO MUNI CT CRMNL	758-6241	1
	SO CO MUNI CT TRFFC	758-6211	1
	SD CO PASSPORT INF	758-6741	1

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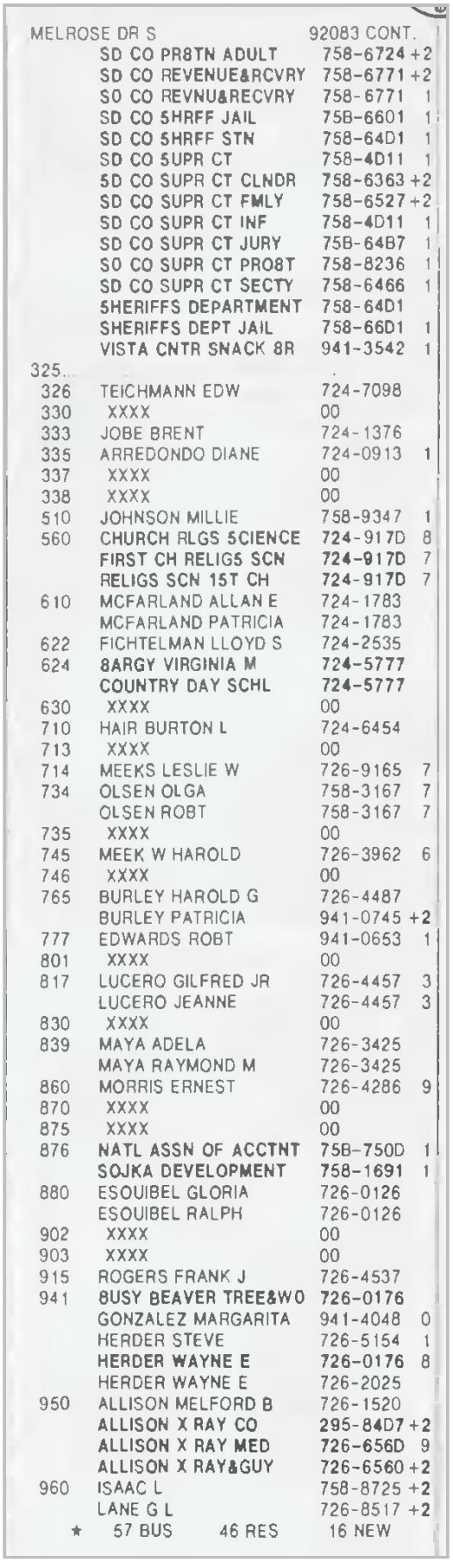

MELROSE DR S 92083 CONT.

	SD CO PR8TN ADULT	758-6724	+2
	SD CO REVENUE&RCVRY	758-6771	+2
	SD CO REVNU&RECVRY	758-6771	1
	SD CO SHRFF JAIL	75B-6601	1
	SD CO SHRFF STN	758-64D1	1
	SD CO SUPR CT	758-4D11	1
	SD CO SUPR CT CLNDR	758-6363	+2
	SD CO SUPR CT FMLY	758-6527	+2
	SD CO SUPR CT INF	758-4D11	1
	SD CO SUPR CT JURY	75B-64B7	1
	SD CO SUPR CT PROBT	758-8236	1
	SD CO SUPR CT SECTY	758-6466	1
	SHERIFFS DEPARTMENT	758-64D1	
	SHERIFFS DEPT JAIL	758-66D1	1
	VISTA CNTR SNACK BR	941-3542	1
325			
326	TEICHMANN EDW	724-7098	
330	XXXX	00	
333	JOBE BRENT	724-1376	
335	ARREDONDO DIANE	724-0913	1
337	XXXX	00	
338	XXXX	00	
510	JOHNSON MILLIE	758-9347	1
560	CHURCH RLGS SCIENCE	724-917D	8
	FIRST CH RELIGS SCN	724-917D	7
	RELIGS SCN 1ST CH	724-917D	7
610	MCFARLAND ALLAN E	724-1783	
	MCFARLAND PATRICIA	724-1783	
622	FICHTELMAN LLOYD S	724-2535	
624	BARGY VIRGINIA M	724-5777	
	COUNTRY DAY SCHL	724-5777	
630	XXXX	00	
710	HAIR BURTON L	724-6454	
713	XXXX	00	
714	MEEKS LESLIE W	726-9165	7
734	OLSEN OLGA	758-3167	7
	OLSEN ROBT	758-3167	7
735	XXXX	00	
745	MEEK W HAROLD	726-3962	6
746	XXXX	00	
765	BURLEY HAROLD G	726-4487	
	BURLEY PATRICIA	941-0745	+2
777	EDWARDS ROBT	941-0653	1
801	XXXX	00	
817	LUCERO GILFRED JR	726-4457	3
	LUCERO JEANNE	726-4457	3
830	XXXX	00	
839	MAYA ADELA	726-3425	
	MAYA RAYMOND M	726-3425	
860	MORRIS ERNEST	726-4286	9
870	XXXX	00	
875	XXXX	00	
876	NATL ASSN OF ACCTNT	75B-750D	1
	SOJKA DEVELOPMENT	758-1691	1
880	ESQUIBEL GLORIA	726-0126	
	ESQUIBEL RALPH	726-0126	
902	XXXX	00	
903	XXXX	00	
915	ROGERS FRANK J	726-4537	
941	BUSY BEAVER TREE&WO	726-0176	
	GONZALEZ MARGARITA	941-4048	0
	HERDER STEVE	726-5154	1
	HERDER WAYNE E	726-0176	8
	HERDER WAYNE E	726-2025	
950	ALLISON MELFORD B	726-1520	
	ALLISON X RAY CO	295-84D7	+2
	ALLISON X RAY MED	726-656D	9
	ALLISON X RAY&GUY	726-6560	+2
960	ISAAC L	758-8725	+2
	LANE G L	726-8517	+2

★ 57 BUS 46 RES 16 NEW

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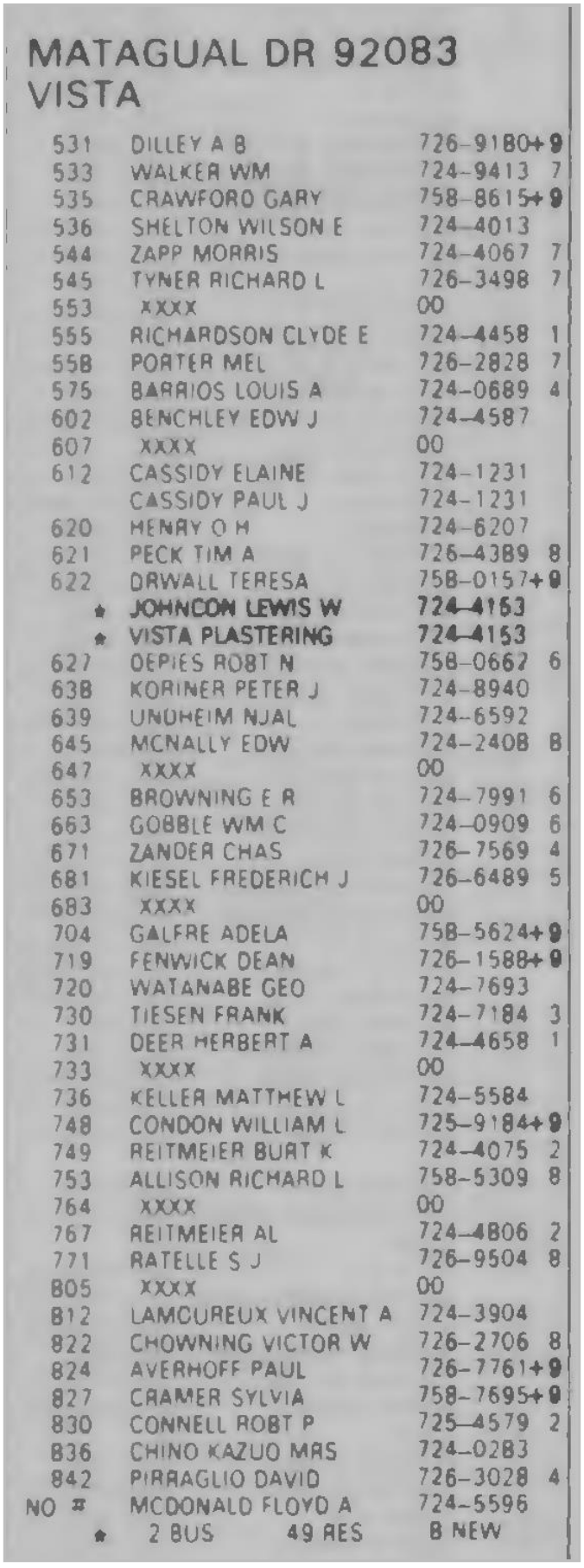

MATAGUAL DR 92083
VISTA

531	DILLEY A B	726-9180+9
533	WALKER WM	724-9413 7
535	CRAWFORD GARY	758-8615+9
536	SHELTON WILSON E	724-4013
544	ZAPP MORRIS	724-4067 7
545	TYNER RICHARD L	726-3498 7
553	XXXX	00
555	RICHARDSON CLYDE E	724-4458 1
558	PORTER MEL	726-2828 7
575	BARRIOS LOUIS A	724-0689 4
602	BENCHLEY EDW J	724-4587
607	XXXX	00
612	CASSIDY ELAINE	724-1231
	CASSIDY PAUL J	724-1231
620	HENRY O H	724-6207
621	PECK TIM A	726-4389 8
622	DRWALL TERESA	758-0157+9
*	JOHNSON LEWIS W	724-4153
*	VISTA PLASTERING	724-4153
627	DEPIES ROBT N	758-0662 6
638	KORINER PETER J	724-8940
639	UNDHEIM NJAL	724-6592
645	MCNALLY EDW	724-2408 8
647	XXXX	00
653	BROWNING E R	724-7991 6
663	GOBBLE WM C	724-0909 6
671	ZANDER CHAS	726-7569 4
681	KIESEL FREDERICH J	726-6489 5
683	XXXX	00
704	GALFRE ADELA	758-5624+9
719	FENWICK DEAN	726-1588+9
720	WATANABE GEO	724-7693
730	TIESEN FRANK	724-7184 3
731	DEER HERBERT A	724-4658 1
733	XXXX	00
736	KELLER MATTHEW L	724-5584
748	CONDON WILLIAM L	725-9184+9
749	REITMEIER BURT K	724-4075 2
753	ALLISON RICHARD L	758-5309 8
764	XXXX	00
767	REITMEIER AL	724-4806 2
771	RATELLE S J	726-9504 8
805	XXXX	00
812	LAMOUREUX VINCENT A	724-3904
822	CHOWNING VICTOR W	726-2706 8
824	AVERHOFF PAUL	726-7761+9
827	CRAMER SYLVIA	758-7695+9
830	CONNELL ROBT P	725-4579 2
836	CHINO KAZUO MRS	724-0283
842	PIRRAGLIO DAVID	726-3028 4
NO #	MCDONALD FLOYD A	724-5596
*	2 BUS 49 RES	8 NEW

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S MELROSE DR 1979

MELROSE DR S 92083
VISTA

210★	MELROSE EXXON	724-4500	+9
302	XXXX	00	
310★	CALIF WICKERY	724-5085	2
	SHADLE THOS E	724-5065	0
312	COLE JEFF	724-7552	7
	COLE LINDA D	724-7552	7
325	BUILDING		
★	CO SD BD SURVR 5TH	758-6628	
★	CO SD CO CLRK N CO	758-6741	
★	CO SD COUNTY CLERK	758-4011	
★	CO SD DA OFC	758-6371	
★	CO SD HMN SV AGING	758-6345	
★	CO SD LBRY BOOKMBLE	758-6668	
★	CO SD LBRY BRANCH	724-5507	
★	CO SD LND USE VISTA	758-6711	
★	CO SD MARRIAGE LCNS	758-6741	
★	CO SD PASSPORT INF	758-6741	
★	CO SD SHRF CVL PRCS	758-6401	
★	CO SD SUPR CT	758-4011	
★	CO SD SUPR CT CLNDR	758-6363	
★	CO SD SUPR CT PROBT	758-6236	
★	CO SD SUPR CT SEC	758-6468	
★	CO SD ZONING	758-6711	
★	MUNI CT N CIVIL	758-6201	
★	MUNI CT N CRMNL	758-6241	
★	MUNI CT N SMLL CLM	758-6221	
★	MUNI CT N TRAFFIC	758-6211	
★	SHERIFFS DEPARTMENT	758-6301	
★	SHERIFFS DEPARTMENT	758-6401	
★	VISTA COUNTY LIBRY	724-5507	3
325			
326	TEICHMANN EDW	724-7098	
330	WEAVER HARVEY N	724-8273	
333	JOBE BRENT	724-1376	0
335	CHAMBERLAIN ALAN B	724-4592	4
337	GILL B G	758-0517	6
	WHEELER FREEMAN	726-5493	+9
338	XXXX	00	
560★	CHURCH OF REL SERV	724-9170	8
★	FIRST CH RELGS SCN	724-9170	7
★	RELIGS SCN 1ST CH	724-9170	7
610	MCFARLAND ALLAN E	724-1783	
	MCFARLAND PATRICIA	724-1783	
622	FICHTELMAN LLOYD S	724-2635	
624★	BARGY VIRGINIA M	724-5777	
★	COUNTRY DAY SCHL	724-5777	
630	HINTHORNE NANCY-MRS	724-6407	3
640	MILLER RONALD S	724-7480	+9
710	HAIR BURTON L	724-6454	
714	MEEKS LESLIE W	726-9165	7
734	OLSEN OLGA	758-3167	7
	OLSEN ROBT	758-3167	7
735	KNUDSEN EINAR S	724-7715	6
	KNUDSEN NANCY	724-7715	6
745	MEEK W HAROLD	726-3962	6
746	XXXX	00	
765	BURLEY HAROLD G	726-4487	0
777★	ALPHA DRAFTING STS	724-2700	+9
797★	CARRIAGE HILLS	758-4340	+9
★	WOODBURY R RL ESTAT	758-4340	+9
801★	VISTA ESTATES CORP	758-3490	+9
817	LUCERO GILFRED JR	726-4457	3
	LUCERO JEANNE	726-4457	3
830	XXXX	00	
839	MAYA ADELA	726-3425	
	MAYA RAYMOND M	726-3425	
860	MORRIS ERNEST	726-4286	+9
870	FEILER DAWN E	724-9818	8
875	XXXX	00	
876	XXXX	00	
880	ESQUIBEL GLORIA	726-0126	
	ESQUIBEL RALPH	726-0126	
	ESQUIVEL RALPH	724-7037	8
902	NARES JOHN MRS	726-0768	
903	XXXX	00	
915	ROGERS FRANK J	726-4537	0
941★	BUSY BVR TREE&WO SV	728-0176	
	HERDER WAYNE E	726-2025	
	HERDER WAYNE E	726-8894	8
	HERDER WAYNE E	726-0176	8
950	ALLISON MELFORD B	726-1520	1
★	ALLISON X RAY MED	728-6560	+9
★	GUY MOCL&ALLSN XRAY	728-6560	5
960	JENKINS KATHRYN	726-3061	4
	JENKINS R-CAPT	726-3061	4
★	37 BUS 46 RES	9 NEW	

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MATAGUAL DR 1975

MATAGUAL DR 92083 VISTA

533	XXXX	00	
535	BYRD ELIZABETH	726-8329	+5
	CORSON GARRY	726-8329	+5
536	SHELTON WILSON E	724-4013	
544	*FURNITURE CRAFTSMAN	724-4464	4
	*MR P	724-4464	+5
	*POSTLEWAITE REFNSHG	724-4464	+5
	POSTLEWAITE ROLLIN	724-4331	
545	XXXX	00	
553	XXXX	00	
555	RICHAROSON CLYOE E	724-4458	1
575	BARRIOS LOUIS A	724-0689	4
602	BENCHLEY EOW J	724-4587	
607	XXXX	00	
612	CASSIOY ELAINE	724-1231	
	CASSIOY PAUL J	724-1231	
620	HENRY O H	724-6207	
621	MCOONALO GEORGIANA	724-7198	+5
622	*JOHNSON LEWIS W	724-4153	
	*VISTA PLASTERING	724-4153	
627	BLAIS ROXA	724-3185	+5
638	KORINER PETER J	724-8940	
639	UNOHEIM NJAL	724-6592	
645	OONN EOW S	724-5980	0
	*UNIVERSL HRTG INVST	726-5323	3
647	XXXX	00	
653	EHLERS JERALO	724-1038	4
663	GOBBLE WM C	724-0909	+5
671	ZANOER CHAS	726-7569	4
681	KIESEL F J	726-6489	+5
719	ANTINARELLI GUY	726-2613	+5
720	WATANABE GEO	724-7693	
730	TIESEN FRANK	724-7184	3
731	OEER HERBERT A	724-4658	1
733	XXXX	00	
736	KELLER MATTHEW L	724-5584	
749	REITMEIER BURT K	724-4075	2
764	JOHNSON GILBERT	724-0770	3
767	REITMEIER AL	724-4806	2
771	HATTY THOS	724-1955	3
805	BARNARO EARL W	724-9288	3
812	LAMOUREUX VINCENT A	724-3904	
822	OAHL M E	724-7666	
824	WEBB CHIC	724-0091	
827	MCLAINE CALVIN R	726-2833	4
830	CONNELL ROBT P	726-4579	2
836	CHINO KAZUO MRS	724-0283	
842	PIRRAGLIO OAVIO	726-3028	4
NO #	MCOONALO FLOYO A	724-5596	

* 6 BUS 43 RES 9 NEW

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MELROSE DR S 92083 VISTA

210*VISTA EXXON SERVICE726-6210 4
302 DEMERY MIKE 758-0856+5
310*CALIFORNIA NICKERY 724-5065 2
SHADLE THOS E 724-5065 0
312 TENNANT DELBERT M 726-8382+5
325*SD CO BD OF SPRVSRS724-8571 3
*SO CO CLERK COURT 724-8571 3
*SO CO DISTRICT ATTY724-8571 3
*SO CO LAW LIBRARY 724-8571+5
*SD CO LBRY BOOKMOBLE724-5622 4
*SD CO LIBRARY 724-5507 3
*SO CO MARRIAGE LCNS724-8571 3
*SD CO REVENUE&RCVRY724-8571 3
*SD CO SHERIFFS DEPT724-2104 3
*SD CO SUPERIOR CT 724-8571 4
*SHERIFFS DEPARTMENT724-2104
*VISTA CO LIBRARY 724-5507 3
326 TEICHMANN EDW 724-7098
330 WEAVER HARVEY N 724-8273
333 JOBE BRENT 724-1376 0
335 CHAMBERLAIN ALAN B 724-4592 4
337 ROMO VINCENT G 724-8113 2
338 XXXX DO
560*CH RELIGIOUS SCIENC724-4190
*FIRST CH RELGS SCN 724-4190
610 MCFARLAND ALLAN E 724-1783
MCFARLAND PATRICIA 724-1783
622 FICHTELMAN LLOYD S 724-2535
624*BARGY VIRGINIA M 724-5777
*COUNTRY DAY SCHL 724-5777
630 HINTHORNE NANCY MRS724-6407 3
640 KREYCIK GENE H 724-0241+5
710 HAIR BURTON L 724-6454
714 CHITTENDEN HENRY 724-7749
734 HALL HENRY M 724-9479+5
735 WILLIAMS G J JR 726-3403 4
WILLIAMS RUBY M 726-3403 4
746 ROBINSON CLARENCE V724-2671
765 BURLEY HAROLD G 726-4487 0
817 LUCERO GILFRED JR 726-4457 3
LUCERO JEANNE 726-4457 3
830 TYNER JAN 726-4570+5
TYNER PAUL 726-4570+5
TYNER RICHARD L 726-3498 3
839 MAYA ADELA 726-3425
MAYA RAYMONO M 726-3425
870 WILBURN E R 724-1808 3
875 XXXX DO
876 CRUZ HENRY F 726-3787
880 ESQUIBEL GLORIA 726-0126
ESQUIBEL RALPH 726-0126
902 NARES JOHN MRS 726-0768
903 XXXX DO
915 ROGERS FRANK J 726-4537 0
941 AGUILAR JOSE 726-2405+5
*BUSY BVR TREE&WD SV726-0176
HERDER WAYNE E 726-2025
950*ALLISN XRAY&GUY MED726-6560+5
ALLISON MELFORD B 726-1520 1
960 JENKINS KATHRYN 726-3061 4
JENKINS R CAPT 726-3061 4
* 20 BUS 41 RES 9 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

MATAGUAL DR 1971

MATAGUAL DR 92083 VISTA

531	DAVIS JOHN R	724-7253
533	XXXX	OO
536	SHELTON WILSON E	724-4013
544	POSTLEWAITE ROLLIN	724-4331
545	MATTSON CARL J	724-3439
553	AVEDISIAN A SSGT	724-6296+1
555	RICHARDSON CLYDE E	724-4458+1
602	BENCHLEY EDW J	724-4587
607	HENDERSON AILENE	724-8808
612	CASSIDY ELAINE	724-1231
	CASSIDY PAUL J	724-1231
620	HENRY O H	724-6207
622*	JOHNSON LEWIS W	724-4153
	*VISTA PLASTERING	724-4153
627	BLAIS F L	724-3185 O
638	KORINER PETER J	724-8940
639	UNDHEIM NJAL	724-6592
645	DONN EDW S	724-5980 O
647	XXXX	OO
719	CLEM JOHN C	724-1251
	CLEM MARJORIE F	724-1251
720	WATANABE GEO	724-7693
730	KENYON WARD	724-1030+1
731	OFFP HERBERT A	724-4658+1
733	SCHIERBECK BETTY S	724-5973 O
	SCHIERBECK RICHARD	724-5973 O
736	KELLER MATTHEW L	724-5584
749	REITMEIER BURT K	724-4075
767	PEITMEIP AL	724-4806
771	XXXX	OO
812	LAMOUREUX VINCENT A	724-3904
822	DAHL M E	724-7666
824	WEBB CHIC	724-0091
827	TAIT HATTIE I	724-7451
	TAIT MAGNUS W	724-7451
830	NONEMAN JOHN	724-5242
836	CHINO KAZUO MRS	724-0283
842	DOWNING LARRY C	724-7763+1
NO #	MCDONALD FLOYD A	724-5596
	* 2 BUS 37 RES 5 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MELROSE DR 1971

MELROSE DR S 92083 VISTA

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 210*ENCO PRODUCTS SS    726-9056+1
    *JIMS ENCO SERVICE   726-9056 D
 302 COLE RICHARD        724-1633 O
 310 SHAOLE LINDA        724-5065 O
     SHAOLE THOS E       724-5065 O
 312 MCKNIGHT J E        724-4898 O
325....BUILDING
    *MUNICIPAL COURT     724-8571
    *S D CNTY PRBATN OPT724-8571+1
    *SAN DIEGO CNTY CLRK724-8571+1
    *SD CO AGRICLTR DEPT724-8571
    *SD CO DIST ATTY     724-8571+1
    *SD CO GARAGE SERV   724-4450
    *SD CO LIBRARY       724-5507
    *SD CO LIBRARY BKMBL724-5622
    *SD CO MARRIAGE LIC  724-8571
    *SD CO MRSHL COURTS  724-8571
    *SD CO SHERIFFS DEPT724-2104
    *SD CO SURRVSR 5 OST724-8571
    *SD CO VETRNS SERV   724-8571
    *SD CO WELFARE DEPT  724-8571
    *SHERIFFS DEPARTMENT724-2104
    *VISTA CO LIBRARY    724-5507
 326 TEICHMANN EDW       724-7098
 330 WEAVER HARVEY N     724-8273
 333 JOBE BRENT          724-1376 O
 335*CHAMBERLAIN ALAN B  724-4157+1
    *NRTH CNTY LANDSCPNG724-4157
 337 ROMO VINCNET G      724-8113
 338  XXXX               OO
 560*CH RELIGIOUS SCIENC724-4190
    *FIRST CH PELCS SCN  724-4190
    *RELIGIOUS SCIENCE CH724-4190
    *RELIGIOUS SCNCE CH  724-4190+1
 610 MCFARLAND ALLAN E   724-1783
     MCFARLAND DARYL     724-5979 O
     MCFARLAND PATRICIA  724-1783
 622 FICHTELMAN LLOYD S  724-2535
 624*BARGY VIRGINIA M     724-5777
    *COUNTRY DAY SCHL    724-5777
 630 HINTHORNE NANCY MRS724-6407
 710 HAIR BURTON L       724-6454
 714 CHITTENDEN HENRY    724-7749
 734 STADDEN WM A        724-4223+1
 735 WILLIAMS GEO        724-0483+1
 746 ROBINSON CLARENCE V724-2671
 765 BURLEY HAROLD G     726-4487 O
 817 ASBURY GARY         726-4109 D
     ASBURY NORMA        726-4109
 830  XXXX               OO
 839 MAYA ADELA          726-3425
     MAYA RAYMOND M      726-3425
 870 STATE W F           726-4415+1
 875 BURKLOW D J         726-0744
 876 CRUZ HENRY F        726-3787
 880 ESQUIBEL GLORIA     726-0126
     ESQUIBEL RALPH      726-0126
 902 NARES JOHN MRS      726-0768
 903 LARA DAN            726-0657
 915 ROGERS FRANK J      726-4537 O
 941*BUSY BVR TREE&WO SV726-0176
     HERDER WAYNE E      726-2025
     HERDER WAYNE E      726-0176
 950 ALLISON MELFORD B   726-1520+1
   *  27 BUS   36 RES   10 NEW
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United States Drug Enforcement Administration- Clandestine Laboratory Register Data

state	county	city	address1	address2	date
California	Alameda	San Lorenzo	17283 Via Annette Dr		2/6/2004
California	Alameda	San Lorenzo	17283 Via Annette Dr		2/6/2004
California	Alameda	San Leandro	1735 138th Ave		2/18/2004
California	Alameda	San Leandro	1735 138th Ave		2/18/2004
California	Alameda	Newark	37120 Spruce St G		2/29/2004
California	Alameda	Hayward	333 Jackson St 219		3/12/2004
California	Alameda	Hayward	333 Jackson St 219		3/12/2004
California	Alameda	Hayward	1032 Central Blvd		6/9/2004
California	Alameda	Hayward	1032 Central Blvd		6/9/2004
California	Alameda	Hayward	231 Culp Ave		8/29/2004
California	Alameda	Hayward	231 Culp Ave		8/29/2004
California	Alameda	Union City	32673 Brenda Way 3		9/28/2004
California	Alameda	Union City	32673 Brenda Way 3		9/28/2004
California	Alameda	Pleasanton	6443 Alisal St		1/19/2005
California	Alameda	San Leandro	872 Donovan Dr		5/4/2005
California	Alameda	San Leandro	14446 Elm St		5/31/2005
California	Alameda	Hayward	27948 Pueblo Serena Way		1/9/2006
California	Alameda	Union City	2351 Hartford Drive		4/7/2006
California	Alameda	Union City	2351 Hartford Drive		4/7/2006
California	Alameda	Fremont	35856 Toledo Court		7/28/2006
California	Alameda	San Lorenzo	1302 Via San Juan Street		10/25/2007
California	Alameda	San Leandro	1553 Santa Maria Road		11/28/2007
California	Alameda	San Leandro	1553 Santa Maria Road		11/28/2007
California	Alameda	Hayward	698 Overhill Drive		5/16/2008
California	Alameda	Hayward	698 Overhill Drive		5/16/2008
California	Alameda	Berkeley	2240 9th Street		7/19/2008
California	Alameda	Oakland	923 39th Street		11/25/2008
California	Alameda	San Lorenzo	16150 Arriba Viaduct		4/8/2009
California	Alameda	Pleasanton	818 Angela Street		3/10/2010
California	Alameda	Pleasanton	818 Angela Street		3/10/2010
California	Alameda	Castro Valley	19127 Santa Maria Avenue		3/24/2010
California	Alameda	Castro Valley	19127 Santa Maria Avenue		3/24/2010
California	Alameda	Oakland	1950 86th Avenue		12/7/2015
California	Alameda	Oakland	1950 86th Avenue		12/7/2015
California	Butte	Oroville	1940 Helman St		2/4/2004
California	Butte	Oroville	1940 Helman St		2/4/2004
California	Butte	Oroville	110 Greenback Dr		2/5/2004
California	Butte	Oroville	110 Greenback Dr		2/5/2004
California	Butte	Oroville	2437 Oro Quincy Hwy		3/17/2004
California	Butte	Oroville	2437 Oro Quincy Hwy		3/17/2004
California	Butte	Paradise	6441 Moss Ln		3/31/2004
California	Butte	Paradise	6441 Moss Ln		3/31/2004
California	Butte	Magalia	3 Jordan Hill Rd		3/31/2004
California	Butte	Biggs	2164 Larkin		4/9/2004
California	Butte	Biggs	2164 Larkin		4/9/2004
California	Butte	Chico	939 W East Ave 4		4/19/2004
California	Butte	Chico	939 W East Ave 4		4/19/2004
California	Butte	Oroville	126 Canyon Highlands Dr		5/5/2004

California	Butte	Oroville	126 Canyon Highlands Dr	5/5/2004
California	Butte	Oroville	208 Misty View Ln	5/10/2004
California	Butte	Oroville	208 Misty View Ln	5/10/2004
California	Butte	Chico	853 E 7th St	7/14/2004
California	Butte	Oroville	2750 De Bangar Hwy	7/21/2004
California	Butte	Paradise	538 Castle	7/23/2004
California	Butte	Paradise	538 Castle	7/23/2004
California	Butte	Oroville	2720 Oro Dam Blvd 6a	8/3/2004
California	Butte	Oroville	2720 Oro Dam Blvd 6a	8/3/2004
California	Butte	Chico	453 Posada Way 12	8/4/2004
California	Butte	Chico	453 Posada Way 12	8/4/2004
California	Butte	Magalia	14723 Gold Cone Dr	9/21/2004
California	Butte	Biggs	488 G St	10/26/2004
California	Butte	Biggs	488 G St	10/26/2004
California	Butte	Oroville	1130 Tehama St	1/12/2005
California	Butte	Oroville	1130 Tehama St	1/12/2005
California	Butte	Chico	1056 E 8th St	3/18/2005
California	Butte	Chico	1056 E 8th St	3/18/2005
California	Butte	Oroville	1915 Plumas St	6/9/2005
California	Butte	Durham	9606 Fimple Rd	7/15/2005
California	Butte	Chico	696 7th E St	10/19/2005
California	Butte	Chico	1402 Pomona Ln	11/17/2005
California	Butte	Oroville	2794 Oak Knoll Way	11/30/2005
California	Butte	Chico	997 E 16th St	12/15/2005
California	Butte	Chico	997 E 16th St	12/15/2005
California	Butte	Gridley	233 Kentucky Street	2/21/2006
California	Butte	Gridley	233 Kentucky Street	2/21/2006
California	Butte	Gridley	275 Kentucky St	2/21/2006
California	Butte	Gridley	275 Kentucky St	2/21/2006
California	Butte	Paradise	5955 Hazel Way	5/25/2006
California	Butte	Oroville	91 Toyon Hills Drive	2/23/2007
California	Butte	Chico	1735 Magnolia Avenue	2/26/2007
California	Butte	Chico	1735 Magnolia Avenue	2/26/2007
California	Butte	Oroville	165 Hurles Circle	3/18/2007
California	Butte	Oroville	165 Hurles Circle	3/18/2007
California	Butte	Oroville	4210 Oro Bangor Highway	6/1/2007
California	Butte	Oroville	4210 Oro Bangor Highway	6/1/2007
California	Butte	Palermo	2398 Louis Avenue	8/27/2007
California	Butte	Palermo	2398 Louis Avenue	8/27/2007
California	Butte	Oroville	2349 Via Madero	9/11/2007
California	Butte	Oroville	1616 Oro Dam Boulevard	10/29/2007
California	Butte	Oroville	1616 Oro Dam Boulevard	10/29/2007
California	Butte	Oroville	1660 20th Street	1/31/2008
California	Butte	Oroville	1660 20th Street	1/31/2008
California	Butte	Oroville	3 Alverda Drive	5/13/2008
California	Butte	Oroville	3 Alverda Drive	5/13/2008
California	Butte	Chico	1024 Neal Dow Avenue	6/7/2008
California	Butte	Honcut	16 Truxton Court	9/2/2008
California	Butte	Honcut	16 Truxton Court	9/2/2008

California	Butte	Oroville	1840 7th Street	9/17/2008
California	Butte	Oroville	1840 7th Street	9/17/2008
California	Butte	Chico	729 Nord Avenue	9/30/2008
California	Butte	Chico	729 Nord Avenue	9/30/2008
California	Butte	Oroville	1960 Rose Street	4/7/2009
California	Butte	Oroville	1960 Rose Street	4/7/2009
California	Butte	Oroville	5075 Lower Wyandotte Avenue	4/7/2009
California	Butte	Oroville	5075 Lower Wyandotte Avenue	4/7/2009
California	Butte	Gridley	124 East Gridley Road	5/14/2010
California	Butte	Gridley	124 East Gridley Road	5/14/2010
California	Butte	Durham	8200 Durnel Drive	5/22/2010
California	Butte	Durham	8200 Durnel Drive	5/22/2010
California	Calaveras	Mountain Ranch	5645 Doster Rd	12/20/2004
California	Calaveras	Mountain Ranch	5645 Doster Rd	12/20/2004
California	Contra Costa	Rodeo	1120 4th St	7/8/2004
California	Contra Costa	Rodeo	1120 4th St	7/8/2004
California	Contra Costa	Antioch	1927 Birch Ave	12/12/2004
California	Contra Costa	Martinez	625 Marina Vista St	3/22/2005
California	Contra Costa	Martinez	625 Marina Vista St	3/22/2005
California	Contra Costa	Richmond	2420 Esmond Avenue	12/5/2006
California	Contra Costa	El Sobrante	2211 Rancho Road	9/20/2007
California	Contra Costa	El Sobrante	2211 Rancho Road	9/20/2007
California	Contra Costa	Richmond	712 Bradford Drive	7/29/2008
California	Contra Costa	Richmond	712 Bradford Drive	7/29/2008
California	Contra Costa	Brentwood	638 Summerwood Drive	2/11/2010
California	Contra Costa	Brentwood	638 Summerwood Drive	2/11/2010
California	Contra Costa	Crockett	815 1st Avenue	12/9/2010
California	Contra Costa	Crockett	815 1st Avenue	12/9/2010
California	Contra Costa	Bay Point	71 Mountain View Avenue	3/22/2011
California	Contra Costa	Bay Point	71 Mountain View Avenue	3/22/2011
California	Contra Costa	Brentwood	1880 East Eden Plains Street	10/2/2014
California	Contra Costa	Brentwood	1880 East Eden Plains Street	10/2/2014
California	Del Norte	Crescent City	1733 Wildwood Ln	4/14/2004
California	Del Norte	Crescent City	1733 Wildwood Ln	4/14/2004
California	El Dorado	El Dorado	6841 Union Mine Rd	4/29/2004
California	El Dorado	El Dorado	6841 Union Mine Rd	4/29/2004
California	Fresno	Reedley	22134 E Hogan Ave	1/15/2004
California	Fresno	Reedley	22134 E Hogan Ave	1/15/2004
California	Fresno	Fresno	12884 S Elm Ave	7/15/2004
California	Fresno	Fresno	12884 S Elm Ave	7/15/2004
California	Fresno	Fresno	1315 E Cornell	7/15/2004
California	Fresno	Fresno	1315 E Cornell	7/15/2004
California	Fresno	Fresno	7090 N Fruit Ave 140	7/29/2004
California	Fresno	Coalinga	47932 Lost Hills Rd	8/30/2004
California	Fresno	Fresno	4822 E Mono St	6/9/2005
California	Fresno	Fresno	4822 E Mono St	6/9/2005
California	Fresno	San Joaquin	2243 Eldorado S B	3/10/2006
California	Fresno	Fresno	2540 North Floyd Avenue	11/24/2006
California	Fresno	Fresno	2540 North Floyd Avenue	11/24/2006

California	Fresno	Caruthers	14594 South Elm Avenue	11/28/2006
California	Fresno	Caruthers	14594 South Elm Avenue	11/28/2006
California	Fresno	Fresno	8971 Mountain View	12/13/2006
California	Fresno	Fresno	8971 Mountain View	12/13/2006
California	Fresno	Fowler	6424 South Fowler Avenue	8/21/2007
California	Fresno	Reedley	20069 Clayton Avenue	12/8/2007
California	Fresno	Reedley	20069 Clayton Avenue	12/8/2007
California	Fresno	Fresno	4409 East Hedges Avenue A	12/16/2008
California	Fresno	Dos Palos	43186 Merrill Avenue	4/15/2010
California	Fresno	Dos Palos	43186 Merrill Avenue	4/15/2010
California	Fresno	Clovis	287 West Barstow Avenue 125b	10/26/2012
California	Fresno	Fresno	3001 West Swift Ave Avenue 104	8/6/2013
California	Fresno	Fresno	3001 West Swift Ave Avenue 104	8/6/2013
California	Fresno	Squaw Valley	46992 Creekside Road	11/18/2013
California	Fresno	Fresno	4851 North N Cedar Ave Avenue 117	1/6/2014
California	Fresno	Fresno	3852 East E Olive Ave Avenue 201	1/14/2014
California	Fresno	Fresno	3852 East E Olive Ave Avenue 201	1/14/2014
California	Fresno	Fresno	3025 East E Gettysburg Ave Avenue 102	1/21/2014
California	Fresno	Fresno	3025 East E Gettysburg Ave Avenue 102	1/21/2014
California	Fresno	Fresno	7675 N First Street Box 203	9/6/2015
California	Fresno	Fresno	4102 E North Avenue	12/24/2015
California	Fresno	Fresno	2715 N Millbrook Avenue	2/3/2016
California	Fresno	Fresno	2715 N Millbrook Avenue	2/3/2016
California	Glenn	Willows	5627 County Road 69	5/12/2004
California	Glenn	Willows	5627 County Road 69	5/12/2004
California	Humboldt	Fortuna	1788 Penn Ave	3/2/2004
California	Humboldt	Fortuna	1788 Penn Ave	3/2/2004
California	Humboldt	Mckinleyville	2331 Central Ave 4	3/25/2004
California	Humboldt	Eureka	1984 Gage Ln	4/27/2004
California	Humboldt	Blue Lake	113 Raymar Ave	5/9/2005
California	Humboldt	Eureka	1034 14th St	6/6/2005
California	Humboldt	Eureka	1034 14th St	6/6/2005
California	Humboldt	Eureka	1323 Summer Street	6/15/2006
California	Humboldt	Arcata	258 Lupin Avenue	8/30/2006
California	Humboldt	Arcata	258 Lupin Avenue	8/30/2006
California	Imperial	Holtville	819 1/2 Fern St	1/28/2004
California	Imperial	Holtville	819 1/2 Fern St	1/28/2004
California	Imperial	Holtville	2300 Slayton Rd	2/5/2004
California	Imperial	Seeley	2205 Haskell Rd	7/20/2004
California	Imperial	Holtville	819 1/2 Fern Ave	3/20/2006
California	Imperial	Holtville	819 1/2 Fern Ave	3/20/2006
California	Kern	Shafter	18478 S Shafter Ave	1/23/2004
California	Kern	Shafter	18478 S Shafter Ave	1/23/2004
California	Kern	Delano	1305 20th Ave	2/4/2004
California	Kern	Delano	1305 20th Ave	2/4/2004
California	Kern	Bakersfield	8614 Fuller	2/22/2004
California	Kern	Bakersfield	2600 Norman Ave	5/26/2004
California	Kern	Bakersfield	2600 Norman Ave	5/26/2004
California	Kern	Shafter	31396 Burbank Ave	6/12/2004

California	Kern	Taft	412 Kern St	8/26/2004
California	Kern	Lake Isabella	3105 Wenyor	9/21/2004
California	Kern	Lake Isabella	3105 Wenyor	9/21/2004
California	Kern	Ridgecrest	709 W Atkins Ave	12/9/2004
California	Kern	Bakersfield	321 Oakdale Dr	3/15/2005
California	Kern	Bakersfield	2714 Allen Rd	3/22/2005
California	Kern	Bakersfield	2714 Allen Rd	3/22/2005
California	Kern	Taft	217 Lierly St	6/20/2005
California	Kern	Bakersfield	2314 Center St	10/19/2005
California	Kern	Bakersfield	200 Miraflores	2/28/2006
California	Kern	Bakersfield	200 Miraflores	2/28/2006
California	Kern	Bakersfield	101 Agarnsey Ln	3/20/2006
California	Kern	Bakersfield	101 Agarnsey Ln	3/20/2006
California	Kern	Bakersfield	109 Clyde Street	4/26/2006
California	Kern	Bakersfield	109 Clyde Street	4/26/2006
California	Kern	Bakersfield	200 Miraflores Avenue	3/18/2007
California	Kern	Bakersfield	200 Miraflores Avenue	3/18/2007
California	Kern	Ridgecrest	345 West Moyer Avenue	6/4/2007
California	Kern	Ridgecrest	345 West Moyer Avenue	6/4/2007
California	Kern	Lamont	10224 San Emidio Street	7/11/2007
California	Kern	Lamont	10224 San Emidio Street	7/11/2007
California	Kern	Lamont	8008 Middleton Lane	5/19/2008
California	Kern	Lamont	8008 Middleton Lane	5/19/2008
California	Kern	Johannesburg	405 Broadway Avenue	10/9/2008
California	Kern	Johannesburg	405 Broadway Avenue	10/9/2008
California	Kern	Bakersfield	8th Street	6/22/2009
California	Kern	Bakersfield	3801 Newcombe Court	3/3/2011
California	Kern	Bakersfield	3804 La Tonia Court	3/3/2011
California	Kern	Bakersfield	3804 La Tonia Court	3/3/2011
California	Kern	Bakersfield	3801 Newcombe Court	3/3/2011
California	Kern	Bakersfield	218 El Tejon Avenue	7/8/2011
California	Kern	Bakersfield	218 El Tejon Avenue	7/8/2011
California	Kern	Bakersfield	7601 Redbank	12/13/2011
California	Kern	Bakersfield	7601 Redbank	12/13/2011
California	Kings	Unincorporated City	6260 Barstow Ave	5/21/2004
California	Kings	Unincorporated City	6260 Barstow Ave	5/21/2004
California	Kings	Hanford	11111 9 3/4 Avenue	4/16/2007
California	Kings	Hanford	11111 9 3/4 Avenue	4/16/2007
California	Lake	Lakeport	525 Esplanade St	1/27/2004
California	Lake	Clearlake	13660 East Lake Dr	4/19/2004
California	Lake	Clearlake	13660 East Lake Dr	4/19/2004
California	Lake	Clearlake	15888 19th St	4/28/2004
California	Lake	Clearlake	15888 19th St	4/28/2004
California	Lake	Finley	3424 Stone Dr	9/15/2004
California	Lake	Finley	3424 Stone Dr	9/15/2004
California	Lake	Lower Lake	10243 Siegler Canyon Rd	11/17/2004
California	Lake	Lower Lake	10243 Siegler Canyon Rd	11/17/2004
California	Lake	Clearlake	16537 35th Ave	6/18/2005
California	Lake	Nice	6643 Collier	2/15/2006

California	Lake	Clearlake	13820 Manakee Drive	1/20/2010
California	Lake	Clearlake	13820 Manakee Drive	1/20/2010
California	Los Angeles	Redondo Beach	208 B Ave	1/4/2004
California	Los Angeles	Los Angeles	2742 Lanfranco St 7	1/7/2004
California	Los Angeles	Covina	444 Citrus N Ave	1/13/2004
California	Los Angeles	Santa Fe Springs	11462 Telegraph Rd	1/14/2004
California	Los Angeles	Littlerock	8632 Avenue U E	1/21/2004
California	Los Angeles	Long Beach	2520 Pacific Coast E Hwy 221	1/27/2004
California	Los Angeles	Lancaster	3995 Avenue H W	3/3/2004
California	Los Angeles	East Los Angeles	4135 Floral Ave	3/5/2004
California	Los Angeles	Compton	1016 Poinsettia S Ave	3/10/2004
California	Los Angeles	Llano	25757 V E Ave	3/24/2004
California	Los Angeles	Palmdale	38233 Hendon Dr	4/3/2004
California	Los Angeles	Torrance	4111 Pacific Coast Highway 308	4/11/2004
California	Los Angeles	Norwalk	11026 Imperial E Hwy 10	4/21/2004
California	Los Angeles	Los Angeles	560 Keenan Ave	5/12/2004
California	Los Angeles	La Canada Flintridge	5016 Angeles Crest Hwy	5/25/2004
California	Los Angeles	Los Angeles	5320 1/2 Ithaca Ave	6/22/2004
California	Los Angeles	Whittier	8171 Washington Ave	6/24/2004
California	Los Angeles	Long Beach	1401 11 E St	7/1/2004
California	Los Angeles	Signal Hill	2210 Gaviota N Ave C	7/6/2004
California	Los Angeles	Glendora	19104 Manua Loa	7/21/2004
California	Los Angeles	Los Angeles	21150 Hobart	8/18/2004
California	Los Angeles	La Puente	410 Evanwood Ave	9/22/2004
California	Los Angeles	Baldwin Park	3109 Robinette Ave	9/28/2004
California	Los Angeles	San Dimas	1717 Monte Vista Dr	10/7/2004
California	Los Angeles	Pomona	320 Jefferson W Ave	10/19/2004
California	Los Angeles	Lynwood	10868 Drury Ln	10/29/2004
California	Los Angeles	El Monte	11828 Emery St	11/18/2004
California	Los Angeles	El Monte	4350 Ranger Ave	11/29/2004
California	Los Angeles	La Puente	18631 Altario St	1/13/2005
California	Los Angeles	Lancaster	42705 6th E St	2/3/2005
California	Los Angeles	Downey	9322 Stamps Ave	2/18/2005
California	Los Angeles	City Of Commerce	5820 Ramon Ct	4/14/2005
California	Los Angeles	San Pedro	975 5th W St	8/3/2005
California	Los Angeles	Winnetka	8474 Quartz Ave	9/28/2005
California	Los Angeles	Van Nuys	15149 Domino St	11/8/2005
California	Los Angeles	Whittier	6133 Mcnees Ave	1/14/2006
California	Los Angeles	Panorama City	8154 Allott	1/19/2006
California	Los Angeles	Wilmington	1724 Fries Ave	2/17/2006
California	Los Angeles	Gardena	14903 Chadron Ave 1	3/1/2006
California	Los Angeles	Los Angeles	1406 Gordon Street	3/26/2006
California	Los Angeles	Long Beach	2124 Mc Kenzie Avenue	4/25/2006
California	Los Angeles	Lancaster	44634 Date Avenue	6/2/2006
California	Los Angeles	Shadow Hills	10339 Johanna Avenue	6/22/2006
California	Los Angeles	Los Angeles	123 S Lake Street	7/14/2006
California	Los Angeles	Sylmar	12600 Bradley Street	7/19/2006
California	Los Angeles	Diamond Bar	2620 Castlerock Road	8/1/2006
California	Los Angeles	Covina	19850 Arrow Highway	8/6/2006

California	Los Angeles	Los Angeles	3015 Sunnynook Drive	8/11/2006
California	Los Angeles	Palmdale	38566 East 35th Street	10/3/2006
California	Los Angeles	Los Angeles	244 West 47th Place	10/12/2006
California	Los Angeles	Los Angeles	244 47th Place	10/12/2006
California	Los Angeles	Pomona	1347 Cambrin Road	12/7/2006
California	Los Angeles	Los Angeles	11630 West 207th Street	12/7/2006
California	Los Angeles	Cerritos	12513 Sandy Creek Lane	3/9/2007
California	Los Angeles	Long Beach	1624 Junipero Avenue	4/4/2007
California	Los Angeles	Whittier	10816 Townley Drive	5/11/2007
California	Los Angeles	Huntington Park	2505 Olive Street	5/15/2007
California	Los Angeles	South Gate	2634 Palm Place	5/29/2007
California	Los Angeles	Pomona	260 La Verne Avenue	7/12/2007
California	Los Angeles	Lancaster	45448 Elm	7/14/2007
California	Los Angeles	Wilmington	1630 Sandison Street	7/20/2007
California	Los Angeles	Los Angeles	321 Westminster Avenue	8/9/2007
California	Los Angeles	Los Angeles	1216 Hanover Avenue	8/12/2007
California	Los Angeles	Huntington Park	6418 Seville	9/18/2007
California	Los Angeles	Los Angeles	359 71st Street	10/10/2007
California	Los Angeles	Diamond Bar	749 Featherwood Drive	11/1/2007
California	Los Angeles	Long Beach	3613 La Jara Street	11/14/2007
California	Los Angeles	Los Angeles	3744 59th Street	12/20/2007
California	Los Angeles	Van Nuys	7400 Sepulveda Boulevard	2/12/2008
California	Los Angeles	Los Angeles	218 1/2 54th Street	3/14/2008
California	Los Angeles	Los Angeles	4154 Compton Avenue	4/17/2008
California	Los Angeles	Downey	10350 Haledon Avenue	5/21/2008
California	Los Angeles	Baldwin Park	4442 Edra Avenue	6/16/2008
California	Los Angeles	Encino	17448 Ventura Boulevard	8/11/2008
California	Los Angeles	Bellflower	17122 Downey Avenue	11/2/2008
California	Los Angeles	Huntington Park	2409 Olive Street	11/18/2008
California	Los Angeles	Long Beach	1875 Lime Avenue	12/22/2008
California	Los Angeles	Los Angeles	6118 Hooper Street	4/24/2009
California	Los Angeles	Bell	3717 Bell Avenue	6/6/2009
California	Los Angeles	Los Angeles	5170 South Normandie Avenue	1/3/2010
California	Los Angeles	Los Angeles	2109 Estrella Avenue	2/2/2010
California	Los Angeles	Long Beach	2345 East Harding Street	2/4/2010
California	Los Angeles	Long Beach	2454 Easy Avenue	2/10/2010
California	Los Angeles	Santa Fe Springs	13310 Telegraph Road	4/14/2010
California	Los Angeles	Bell Gardens	7534 Purdy Street	5/1/2010
California	Los Angeles	Inglewood	8815 South Van Ness Avenue	5/4/2010
California	Los Angeles	Los Angeles	6516 South Main Street	6/2/2010
California	Los Angeles	Norwalk	12618 Studebaker Road	6/14/2010
California	Los Angeles	Hawthorne	12600 Prairie Avenue	7/19/2010
California	Los Angeles	Hawthorne	2851 West 120th Street	7/22/2010
California	Los Angeles	Los Angeles	213 1/2 West 66 Street	9/21/2010
California	Los Angeles	Hawthorne	13611 Doty Avenue	2/3/2011
California	Los Angeles	Los Angeles	1564 East 117th Street	4/4/2013
California	Los Angeles	Artesia	11635 Artesia Boulevard	5/1/2013
California	Los Angeles	Beverly Hills	712 North Rexford Drive	6/1/2013
California	Los Angeles	Covina	771 Rancho Simi Drive	6/1/2016

California	Los Angeles	Compton	14502 S Keene Ave	8/14/2016
California	Los Angeles	Gardena	1218 W 134th St	9/25/2016
California	Los Angeles	Lancaster	42835 San Francisco Av	12/10/2017
California	Los Angeles	North Hollywood	7829 Nagle Av	12/10/2017
California	Madera	Chowchilla	18899 Road 16	4/28/2004
California	Madera	Chowchilla	1304 Colusa Ave A	1/25/2005
California	Madera	Madera	21442 Avenue 19 Ave	2/10/2005
California	Madera	Madera	815 East Clinton Avenue	8/29/2006
California	Madera	Madera	18697 Avenue Pass	8/21/2007
California	Madera	Madera	512 Fein Street	8/25/2007
California	Madera	Madera	35626 14 1/2 Avenue	2/1/2008
California	Madera	Madera	13577 20th Avenue	9/4/2008
California	Madera	Madera	19184 Ave 18	5/15/2014
California	Madera	Madera	25816 Avenue 18 1/2	6/14/2016
California	Madera	Madera	11265 Iowa Av	12/27/2017
California	Mendocino	Fort Bragg	16900 Franklin Road	5/9/2006
California	Mendocino	Willits	65000 Sherwood Ridge Road	2/20/2008
California	Mendocino	Redwood Valley	9800 West Road	4/9/2009
California	Mendocino	Philo	3500 Little Mill Creek Road	5/6/2010
California	Mendocino	Fort Bragg	621 West St	9/16/2016
California	Mendocino	Hopland	14410 Mountain House Rd	9/21/2016
California	Merced	Merced	2536 Lobo	2/4/2004
California	Merced	Stevinson	18910 W 6th St	2/10/2004
California	Merced	Merced	3613 N Garner Rd	2/27/2004
California	Merced	Livingston	5679 Arena Way	4/6/2004
California	Merced	Hilmar	20295 August Rd	4/15/2004
California	Merced	Cressey	9835 Cressey	6/3/2004
California	Merced	Delhi	16235 Redbud Ct	6/29/2004
California	Merced	South Dos Palos	8827 W K St	7/23/2004
California	Merced	Winton	6280 Central Ave	8/8/2004
California	Merced	Winton	9605 Eucalyptus Ave	8/8/2004
California	Merced	Hilmar	19511 Williams Ave	10/13/2004
California	Merced	Merced	321 S 59 S Hwy	1/3/2005
California	Merced	Gustine	8450 Highway 33 S Hwy	3/2/2005
California	Merced	Atwater	9000 Moran Ave	5/11/2005
California	Merced	Atwater	1236 Hull Rd	9/23/2005
California	Merced	Stevinson	23875 Second Avenue	3/27/2006
California	Merced	Los Banos	313 J Street	8/11/2006
California	Merced	Atwater	1001 Sandpiper Way	11/15/2006
California	Merced	Delhi	8620 Hinton	11/15/2006
California	Merced	Merced	824 S Freya	1/25/2007
California	Merced	Winton	7409 Amanda Drive	3/13/2007
California	Merced	Merced	2499 East Gerard Avenue	3/21/2007
California	Merced	Merced	14717 East 272nd	9/6/2007
California	Merced	Hilmar	250 N Union	10/12/2007
California	Merced	Merced	5 West 25th Street 2	1/16/2008
California	Merced	Stevinson	2917 Cemetery Road	2/20/2008
California	Merced	Stevinson	2991 Cemetery	2/20/2008
California	Merced	Winton	6814 Arlene Way	3/12/2008

California	Merced	Atwater	4146 South Elliott Road	8/11/2008
California	Merced	Delhi	15575 August Avenue	9/8/2008
California	Merced	Ballico	11368 North Santa Fe Avenue	1/10/2010
California	Merced	Hilmar	19542 East First Street	4/1/2010
California	Merced	Winton	7125 North Vine Avenue	4/21/2010
California	Merced	Stevinson	2228 Nelander Avenue	4/27/2010
California	Merced	Livingston	15290 Sunset Drive	5/22/2010
California	Merced	Delhi	9640 Sands Road	6/6/2010
California	Merced	Winton	7040 Myrtle Avenue	2/8/2016
California	Merced	Atwater	2521 Boulder Dr	9/21/2016
California	Monterey	Salinas	1769 Yosemite Cir	5/21/2004
California	Monterey	Pacific Grove	316 Prescott Ln	7/16/2004
California	Monterey	Salinas	18840 Northeast Eisenhowere Drive	6/20/2007
California	Monterey	Salinas	1233 East Polk Street	6/20/2007
California	Monterey	Greenfield	424 7th Avenue	9/19/2010
California	Nevada	Grass Valley	439 Neal St 1	7/30/2004
California	Orange	Laguna Beach	985 Pacific Coast N Hwy	2/1/2004
California	Orange	Buena Park	7555 Beach Blvd 128	2/10/2004
California	Orange	Irvine	173 Topeka	2/11/2004
California	Orange	Tustin	13624 Estero Cir	4/24/2004
California	Orange	Santa Ana	1137 Mcfadden W	7/7/2004
California	Orange	Westminster	7681 Baylor Dr	7/15/2004
California	Orange	La Habra	2320 Story Ave	7/16/2004
California	Orange	Garden Grove	8062 Garden Grove Blvd 241	9/21/2004
California	Orange	Orange	2135 Almond W St	10/15/2004
California	Orange	Santa Ana	1233 Genoa S Dr	11/30/2004
California	Orange	Cypress	4812 Grace Avenue	4/10/2006
California	Orange	Westminster	9851 Bolsa Avenue	5/5/2006
California	Orange	Westminster	5051 Princeton Avenue	5/17/2006
California	Orange	La Palma	4761 Sharon Drive A	7/17/2006
California	Orange	Stanton	10698 Court Street	9/15/2006
California	Orange	Stanton	7701 Westbrook Way	4/19/2007
California	Orange	Yorba Linda	5471 Jefferson Street	11/13/2007
California	Orange	Fullerton	641 Commonwealth Avenue	12/7/2007
California	Orange	Anaheim	131 Magnolia Avenue	3/21/2008
California	Orange	Anaheim	3554 West Cornelia Circle	3/24/2008
California	Orange	Anaheim	1819 Cris	3/27/2008
California	Orange	Anaheim	1261 Placentia Street	3/29/2008
California	Orange	Anaheim	2500 East Terrace Street	4/8/2008
California	Orange	Santa Ana	1314 Harbor Boulevard	4/9/2008
California	Orange	Garden Grove	9755 Bixby Avenue	4/11/2008
California	Orange	Costa Mesa	929 Joann Street	5/13/2008
California	Orange	Santa Ana	3012 Halladay	5/19/2008
California	Orange	Santa Ana	412 Baker Street	5/21/2008
California	Orange	Orange	207 Esplande Street	5/30/2008
California	Orange	Santa Ana	702 Santa Ana Boulevard	7/14/2008
California	Orange	Anaheim	622 Velare Avenue	9/16/2008
California	Orange	Westminster	13100 Goldenwest Street	4/28/2009
California	Orange	Santa Ana	1450 Auto Drive	5/11/2009

California	Orange	Garden Grove	10042 Lampson Avenue	5/13/2009
California	Orange	Westminster	6942 Garden Grove Boulevard	5/21/2009
California	Orange	Buena Park	7111 Beach Boulevard	2/10/2010
California	Orange	Garden Grove	13691 Barnett Way	2/13/2010
California	Orange	Anaheim	1303 West Marlboro Avenue	2/22/2010
California	Orange	Placentia	745 Dunn	3/16/2010
California	Orange	Irvine	87 Pinestone	3/23/2010
California	Orange	Orange	2300 North Tustin Avenue	3/29/2010
California	Orange	Huntington Beach	8230 Talbert	4/7/2010
California	Orange	Santa Ana	4417 Morningside	4/28/2010
California	Orange	Brea	2595 Imperial Highway	5/20/2010
California	Orange	Santa Ana	800 South Sullivan Street D3	12/23/2011
California	Orange	Anaheim	10141 Gravier St	12/8/2017
California	Plumas	Portola	5630 Casey Jones Road	4/14/2006
California	Plumas	Chester	460 Melissa Avenue	10/11/2007
California	Plumas	Quincy Junction	1426 Butterfly Valley Road	2/17/2010
California	Plumas	Portola	324 Bella Vista	3/9/2010
California	Riverside	Desert Hot Springs	66366 6th St	1/20/2004
California	Riverside	Riverside	344 N State 148	1/28/2004
California	Riverside	Hemet	531 Cedar Ln 2	2/7/2004
California	Riverside	Perris	332 W 11th St	2/8/2004
California	Riverside	Hemet	1675 Cobble Ln	2/11/2004
California	Riverside	Cathedral City	68557 C Street	2/16/2004
California	Riverside	Hemet	1097 N State St 2	2/18/2004
California	Riverside	Glen Avon Heights	4080 Conning	2/29/2004
California	Riverside	Corona	734 Viewtop Ln	3/12/2004
California	Riverside	El Cerrito	19078 Rising Sun Rd	3/12/2004
California	Riverside	Norco	2574 Ridgecrest	3/16/2004
California	Riverside	Hemet	772 N State	3/24/2004
California	Riverside	Hemet	225 S Elk St 36	3/30/2004
California	Riverside	Riverside	5861 Mitchell	3/31/2004
California	Riverside	Corona	995 Pomona Rd 17	4/2/2004
California	Riverside	Beaumont	34250 San Timiteo Canyon Rd	4/15/2004
California	Riverside	Beaumont	1016 Palm Ave	4/19/2004
California	Riverside	Lake Elsinore	17911 Thoreson	4/29/2004
California	Riverside	Hemet	43939 Florida Ave	5/4/2004
California	Riverside	Hemet	585 S Santa Fe	5/15/2004
California	Riverside	Winchester	33091 Willard	5/20/2004
California	Riverside	Hemet	2688 E Florida Ave 18	6/4/2004
California	Riverside	Indio	46540 Padua Cir	6/9/2004
California	Riverside	Anza	57310 Valley Vista	6/11/2004
California	Riverside	Perris	143 Perou St	6/27/2004
California	Riverside	Victorville	20197 Nandina Ave	7/9/2004
California	Riverside	Corona	1330 W 8th St 18	7/21/2004
California	Riverside	Perris	618 Bond Dr	7/29/2004
California	Riverside	San Jacinto	437 Mead	8/2/2004
California	Riverside	Moreno Valley	25204 Bridle Trail	8/29/2004
California	Riverside	Indio	47800 Madison St 169	9/21/2004
California	Riverside	Lake Matthews	17224 Cajon Dr	9/28/2004

California	Riverside	Banning	1007 Linda Vista Rd	10/26/2004
California	Riverside	Victorville	22875 Rios	11/16/2004
California	Riverside	Menifee	26814 Madera Ct	12/6/2004
California	Riverside	Hemet	4400 Florida W Ave 117	12/8/2004
California	Riverside	Hemet	41251 Rope Rd	1/29/2005
California	Riverside	Perris	4715 Wade Ave	3/3/2005
California	Riverside	San Jacinto	344 N State St Sp 196	6/15/2005
California	Riverside	Perris	19881 Gustin Rd	12/12/2005
California	Riverside	Hemet	525 Gilbert N 49	1/20/2006
California	Riverside	Lake Elsinore	34323 Sunrise Drive	1/27/2006
California	Riverside	Corona	446 Francis E St	2/2/2006
California	Riverside	San Jacinto	610 Washington E Ave	2/22/2006
California	Riverside	Hemet	25873 Riverview Lane	3/15/2006
California	Riverside	Desert Hot Springs	13255 Mexquite Avenue	3/23/2006
California	Riverside	San Jacinto	182 De Anza	4/20/2006
California	Riverside	Nuevo	22788 Via Santana	4/21/2006
California	Riverside	Calimesa	9453 Sharondale Road	6/8/2006
California	Riverside	Riverside	11235 Cypress	6/27/2006
California	Riverside	Mountain Center	63137 Jeraboa Road	4/12/2007
California	Riverside	Corona	379 East Rancho Road	1/2/2008
California	Riverside	Norco	3117 Shadow Canyon Circle	1/31/2008
California	Riverside	Hemet	32809 Red Mountain Road	2/18/2008
California	Riverside	Palm Springs	383 Vereda Norte	6/20/2008
California	Riverside	Perris	21747 Webster Avenue	8/7/2008
California	Riverside	Perris	21881 Oleander Avenue	8/29/2008
California	Riverside	Mira Loma	10351 Oak Bark Lane	11/12/2008
California	Riverside	Desert Hot Springs	12155 Ocotillo Road	4/29/2009
California	Riverside	Hemet	871 San Mateo Circle	5/21/2009
California	Riverside	Temecula	29774 Calle Pantano	2/2/2010
California	Riverside	Riverside	4080 Pedley Road	2/5/2010
California	Riverside	Banning	514 East Victory Avenue	3/21/2010
California	Riverside	Riverside	12172 Severn Way	4/2/2010
California	Riverside	Riverside	11744 Hazeldell Drive	4/2/2010
California	Riverside	Perris	644 Primrose Place	4/8/2011
California	Riverside	Perris	2520 Spectacular Bid Street	7/29/2014
California	Riverside	Moreno Valley	16329 Saddleback Lane	2/3/2015
California	Riverside	Moreno Valley	25399 Todd Drive	8/15/2015
California	Riverside	Moreno Valley	16329 Saddlebrook Lane	2/9/2016
California	Riverside	Hemet	1610 Bluejay Way	3/2/2016
California	Riverside	Indio	43430 Monroe St	9/3/2016
California	Riverside	Coachella	731 Orchard St	10/4/2016
California	Riverside	Mira Loma	12332 Kern River Dr	12/6/2017
California	Riverside	Temecula	30984 Lolita Rd	12/7/2017
California	Sacramento	Sacramento	4405 23rd St	2/4/2004
California	Sacramento	Sacramento	4719 Hayford Way	2/24/2004
California	Sacramento	Sacramento	7624 Birdie Ct	3/23/2004
California	Sacramento	Sacramento	1536 Strader Ave	3/26/2004
California	Sacramento	Sacramento	5867 Auburn Blvd 30	3/30/2004
California	Sacramento	Sacramento	2530 Street S 8	4/1/2004

California	Sacramento	Rancho Cordova	10892 Walnutwood Way	4/4/2004
California	Sacramento	Elverta	2495 Rhine Way	8/5/2004
California	Sacramento	Sacramento	3534 Summer Park Dr 354	10/8/2004
California	Sacramento	Elk Grove	5354 Jade Creek	2/23/2005
California	Sacramento	Elverta	2110 Quail Ranch Court	2/28/2006
California	Sacramento	Sacramento	4144 Cabinet Circle	3/6/2006
California	Sacramento		5140 W Sherman Island Road	5/13/2006
California	Sacramento	Sacramento	7662 Country Park Drive	6/6/2006
California	Sacramento	Sacramento	5230 Palm	1/30/2007
California	Sacramento	Sacramento	2681 Fairfield Street	2/13/2007
California	Sacramento	Citrus Heights	7401 Lovato	6/23/2007
California	Sacramento	Sacramento	6316 Welty Way	12/3/2008
California	Sacramento	Galt	132 4th	4/20/2010
California	San Bernardino	Fontana	14430 Santa Ana	1/15/2004
California	San Bernardino	Ontario	844 Wysteria E Ct	1/21/2004
California	San Bernardino	Redlands	1034 Alta St	1/28/2004
California	San Bernardino	Victorville	16717 C St	1/30/2004
California	San Bernardino	Chino	11838 Central Ave 93	2/11/2004
California	San Bernardino	Rialto	349 N Lilac	2/17/2004
California	San Bernardino	Apple Valley	21845 Arapahoe St 1	2/17/2004
California	San Bernardino	Victorville	16868 Stoddard Wells Rd	2/19/2004
California	San Bernardino	Twentynine Palms	4828 Lear Ave	2/22/2004
California	San Bernardino	Hesperia	14926 Fir St	2/25/2004
California	San Bernardino	San Bernardino	1443 Cedar 23	3/9/2004
California	San Bernardino	Victorville	15330 Condor Rd	3/9/2004
California	San Bernardino	Newberry Springs	52875 Bedford Rd	3/25/2004
California	San Bernardino	Fontana	13519 Arrow Rt	3/30/2004
California	San Bernardino	Twentynine Palms	7580 Mac Rd	3/31/2004
California	San Bernardino	San Bernardino	1443 Cedar St 1	4/9/2004
California	San Bernardino	Twentynine Palms	5665 Aeronia	4/15/2004
California	San Bernardino	Baker	71759 Baker Blvd	4/16/2004
California	San Bernardino	Highland	7409 Los Feliz Dr	4/23/2004
California	San Bernardino	San Bernardino	3160 N State St	4/23/2004
California	San Bernardino	Phelan	8135 Joshua St	4/27/2004
California	San Bernardino	Chino	12018 Central Ave	5/13/2004
California	San Bernardino	Highland	25715 Lime St	5/18/2004
California	San Bernardino	Apple Valley	10620 Matilija	5/21/2004
California	San Bernardino	San Bernardino	2176 Amanda St	5/21/2004
California	San Bernardino	Highland	28457 Merrion Ave	5/21/2004
California	San Bernardino	Joshua Tree	62475 Cove Ln	5/27/2004
California	San Bernardino	Apple Valley	10808 Mills Rd	6/2/2004
California	San Bernardino	Barstow	24966 Camino Del Sol St	6/7/2004
California	San Bernardino	Hesperia	15356 Pendleton	6/16/2004
California	San Bernardino	Twentynine Palms	68077 Indian Trail	6/16/2004
California	San Bernardino	Muscoy	2544 3rd St	6/23/2004
California	San Bernardino	Newberry Springs	47962 Horner Rd	6/24/2004
California	San Bernardino	Hesperia	11976 Mariposa Rd	7/3/2004
California	San Bernardino	Ontario	1506 E Highland Ct	7/26/2004
California	San Bernardino	Fontana	7642 Kempster Ave	9/7/2004

California	San Bernardino	Phelan	6721 Nielson Rd	9/17/2004
California	San Bernardino	Barstow	2577 Community Blvd	9/18/2004
California	San Bernardino	Joshua Tree	3255 Sunset Rd	9/26/2004
California	San Bernardino	Hesperia	7892 Alston	10/1/2004
California	San Bernardino	Rancho Cucamonga	7651 Effen	10/1/2004
California	San Bernardino	Newberry Springs	35377 Newberry Rd	10/11/2004
California	San Bernardino	Phelan	11480 Macron	10/19/2004
California	San Bernardino	Victorville	17053 B St	10/19/2004
California	San Bernardino	Victorville	16688 Hughes	10/21/2004
California	San Bernardino	Redlands	28565 San Timoteo Canyon	10/25/2004
California	San Bernardino	San Bernardino	1162 E 2nd	11/16/2004
California	San Bernardino	Bloomington	16742 14th St	11/17/2004
California	San Bernardino	Barstow	29779 N 1st	11/18/2004
California	San Bernardino	Chino Hills	15553 Esther St	12/13/2004
California	San Bernardino	San Bernardino	2547 3rd Ave	12/28/2004
California	San Bernardino	Trona	13860 Fremont St 2	12/30/2004
California	San Bernardino	Barstow	434 S Second St 1	1/1/2005
California	San Bernardino	Upland	359 Seventh St	1/5/2005
California	San Bernardino	San Bernardino	123 E 11th St	1/19/2005
California	San Bernardino	San Bernardino	1318 E Gould St	1/22/2005
California	San Bernardino	Redlands	2155 Citrus Ave 112	2/14/2005
California	San Bernardino	Yucaipa	12470 15th St	5/25/2005
California	San Bernardino	Hesperia	10721 Maple St	7/29/2005
California	San Bernardino	Victorville	16262 Yucca Ave	8/1/2005
California	San Bernardino	San Bernardino	11571 5th St	8/29/2005
California	San Bernardino	Victorville	11550 White Rd	10/17/2005
California	San Bernardino	Hesperia	9553 Los Banos Ave	1/12/2006
California	San Bernardino	Victorville	13126 Mesa	2/7/2006
California	San Bernardino	Ontario	956 Princeton W St	2/10/2006
California	San Bernardino	Victorville	16755 Union St B	2/24/2006
California	San Bernardino	Victorville	15618 Topango Road	3/2/2006
California	San Bernardino	San Bernardino	2131 Genevieve Street	3/10/2006
California	San Bernardino	Victorville	13602 Nassau Drive	3/15/2006
California	San Bernardino	San Bernardino	756 W 19 St	3/16/2006
California	San Bernardino	Fontana	17265 Lurelane Street	3/20/2006
California	San Bernardino	Redlands	828 6th Street	3/23/2006
California	San Bernardino	Hesperia	11516 Hawthorne	3/25/2006
California	San Bernardino	Newberry Springs	42378 Silver Valley Road	4/21/2006
California	San Bernardino	Hesperia	9393 Hickory	6/8/2006
California	San Bernardino	Hesperia	10983 4th Avenue	6/9/2006
California	San Bernardino	Oro Grande	21451 National Trails Highway	6/13/2006
California	San Bernardino	Fontana	13449 Ivy	6/15/2006
California	San Bernardino	Loma Linda	26232 Newport Avenue	8/1/2006
California	San Bernardino	Yermo	37933 Grandview Avenue	8/10/2006
California	San Bernardino	Yucca Valley	58620 San Marino Drive	9/6/2006
California	San Bernardino	San Bernardino	19829 Kendall Drive	9/12/2006
California	San Bernardino	San Bernardino	2292 Portola Street	10/13/2006
California	San Bernardino	Apple Valley	12618 Pocono Road	10/15/2006
California	San Bernardino	Fontana	14349 Figwood Drive	12/13/2006

California	San Bernardino	Victorville	14349 Hesperia Road	12/21/2006
California	San Bernardino	Apple Valley	20024 Happy Trails Highway	1/4/2007
California	San Bernardino	Hesperia	13010 Prairie Trail	2/22/2007
California	San Bernardino	Pinon Hills	11475 Prado Road	3/27/2007
California	San Bernardino	Victorville	13852 Burning Tree Lane	5/3/2007
California	San Bernardino	Redlands	511 Redlands Boulevard	5/16/2007
California	San Bernardino	Colton	1822 Admiralty Street	6/15/2007
California	San Bernardino	San Bernardino	243 Meridian Avenue	7/18/2007
California	San Bernardino	Victorville	16753 Zenda Street	8/6/2007
California	San Bernardino	Ontario	740 Camalot	9/10/2007
California	San Bernardino	San Bernardino	223 49th	11/7/2007
California	San Bernardino	San Bernardino	1431 7th Street	11/26/2007
California	San Bernardino	Adelanto	17526 Keats Road	11/29/2007
California	San Bernardino	Rialto	624 Etiwanda Avenue	12/22/2007
California	San Bernardino	Joshua Tree	8997 Tortuga Road	1/14/2008
California	San Bernardino	San Bernardino	6317 Bonnie Street	4/3/2008
California	San Bernardino	Fontana	16411 Athol Street	4/17/2008
California	San Bernardino	San Bernardino	7234 Dwight Way	7/1/2008
California	San Bernardino	Landers	57646 Linn Road	10/14/2008
California	San Bernardino	Hesperia	9519 Maple Avenue	10/18/2008
California	San Bernardino	Hinkley	23572 State Highway 58	4/5/2009
California	San Bernardino	Apple Valley	9611 Navajo Road	5/5/2009
California	San Bernardino	Victorville	13143 Sleepy Ridge Lane	3/5/2010
California	San Bernardino	San Bernardino	205 West Benedict Road	4/2/2010
California	San Diego	Boulevard	2605 Paseo Alta Ct	1/7/2004
California	San Diego	San Ysidro	905 Hwy Caliente Rd	1/16/2004
California	San Diego	Santee	8593 Magnolia Ave	1/30/2004
California	San Diego	San Diego	875 Hotel S Cir	1/30/2004
California	San Diego	Escondido	1306 Ronda Ave	3/23/2004
California	San Diego	Fallbrook	422 Catalpa Ln	5/19/2004
California	San Diego	San Diego	6173 Fauna Drive	5/21/2004
California	San Diego	Lakeside	11441 El Nopal	8/12/2004
California	San Diego	Escondido	431 4th E Ave 1b	8/31/2004
California	San Diego	San Diego	4242 34th St D	9/16/2004
California	San Diego	Vista	1280 Hacienda Dr G6	11/24/2004
California	San Diego	Escondido	16975 Guejito Rd	3/3/2005
California	San Diego	Escondido	1825 East Valley Way	6/6/2006
California	San Diego	Vista	1710 Avocado Drive	9/14/2006
California	San Diego	Oceanside	3965 Brown Street	9/20/2006
California	San Diego	Vista	663 Eucalyptus	4/3/2007
California	San Diego	La Puente	1254 Bannon	5/10/2007
California	San Diego	San Diego	3835 Midway #203 Drive	6/20/2007
California	San Diego	Vista	526 Mar Vista Drive	11/29/2007
California	San Diego	Vista	1610 N Santa Fe	4/9/2008
California	San Diego	Valley Center	30118 Miller Road	11/7/2008
California	San Diego	San Diego	9777 De La Amistad Viaduct	6/12/2009
California	San Diego	Escondido Junction	1531 Montiel	1/20/2010
California	San Diego	Carlsbad	847 Laguna	8/8/2010
California	San Diego	Carlsbad	382 Acacia	8/8/2010

California	San Diego	Alpine	404 Summerhill Terrace	12/2/2013
California	San Francisco	San Francisco	35 Belvedere St 5	3/29/2006
California	San Joaquin	Stockton	7790 N Ashley Ln	1/20/2004
California	San Joaquin	Stockton	9800 E Eight Mile Rd	4/16/2004
California	San Joaquin	Stockton	5708 N Highway 99	4/18/2004
California	San Joaquin	Stockton	1560 Silver Creek	4/22/2004
California	San Joaquin	Stockton	10285 Hildreth Ln	6/30/2004
California	San Joaquin	Stockton	2717 W March Ln	7/31/2004
California	San Joaquin	Stockton	2654 W March Ln 304	8/4/2004
California	San Joaquin	Stockton	3416 Farmington E Rd 2	8/26/2004
California	San Joaquin	Stockton	2274 E Fremont	9/25/2004
California	San Joaquin	Stockton	2071 La Jolla Dr	4/25/2005
California	San Joaquin	Stockton	2553 Michaelangelo Drive	6/1/2006
California	San Joaquin	Tracy	14703 Finck Road	8/3/2006
California	San Joaquin	Stockton	301 Morada	4/19/2007
California	San Joaquin	Manteca	481 South Union Road	4/20/2007
California	San Joaquin	Lathrop	15523 Sixth Street	10/11/2007
California	San Joaquin	Tracy	11422 West Larch Road	3/14/2008
California	San Luis Obispo	Atascadero	1400 San Ramon	1/5/2004
California	San Luis Obispo	Atascadero	4080 Dolores Avenue	3/14/2006
California	San Luis Obispo	Grover Beach	448 North 9th Street	3/30/2006
California	San Luis Obispo	Morro Bay	525 Atascadero Road	7/12/2006
California	San Luis Obispo	San Luis Obispo	3500 Bullock	8/29/2006
California	San Luis Obispo	Paso Robles	749 Orchard	9/5/2006
California	San Luis Obispo	Templeton	30 Danelion Road	1/15/2007
California	San Luis Obispo	Nipomo	155 East Price Street	4/29/2008
California	San Luis Obispo	San Luis Obispo	1771 Cordova	12/7/2011
California	San Mateo	East Palo Alto	1894 Bay Road	6/4/2006
California	San Mateo	Belmont	926 South Road	6/21/2006
California	San Mateo	Daly City	439 Bonnie Street	1/14/2010
California	Santa Clara	San Jose	3570 Columbine Dr	1/15/2004
California	Santa Clara	San Jose	110 Roundtable Dr 1	2/8/2004
California	Santa Clara	Gilroy	7860 Driftwood Ter A	4/3/2004
California	Santa Clara	San Jose	1374 Randol Ave	5/5/2004
California	Santa Clara	Santa Clara	1232 Warburton Ave	6/8/2004
California	Santa Clara	San Jose	90 Saddlebrook Dr	6/22/2004
California	Santa Clara	San Jose	935 Foxchase Dr 413	9/21/2004
California	Santa Clara	Morgan Hill	6760 Croy Rd	9/29/2004
California	Santa Clara	Los Altos	25562 Fernhill Dr	10/26/2004
California	Santa Clara	San Jose	2251 Lansford Ave	11/15/2004
California	Santa Clara	San Jose	1425 Stahl St	10/16/2005
California	Santa Clara	San Jose	1560 Darlene Ave	1/24/2006
California	Santa Clara	San Jose	1919 Fruitdale Avenue	5/11/2006
California	Santa Clara	San Jose	4075 Hobart Avenue	4/27/2007
California	Santa Clara	Campbell	768 Nevins Street	7/11/2007
California	Santa Clara	San Jose	2475 Glen Angus Way	2/21/2008
California	Santa Clara	Santa Clara	2597 Borax Drive	2/22/2008
California	Santa Clara	San Jose	843 Spindrift Way	3/18/2008
California	Santa Clara	San Jose	1480 Douglas Street	3/20/2008

California	Santa Clara	San Jose	71 Avenida Espana	5/29/2008
California	Santa Clara	San Jose	973 Idlewood Drive	8/31/2008
California	Santa Clara	San Jose	800 Saratoga Avenue A308	6/10/2010
California	Santa Clara	Gilroy	2250 Roop Rd Road	8/19/2010
California	Santa Clara	San Jose	5674 San Felipe Road	8/26/2010
California	Santa Clara	Santa Clara	2147 Newhall Street	3/9/2011
California	Santa Clara	San Jose	315 N 21st Street	9/18/2015
California	Santa Clara	Santa Clara	930 El Camino Real	5/19/2016
California	Santa Cruz	Soquel	2600 41st St	8/12/2004
California	Santa Cruz	Santa Cruz	911 Soquel Ave	3/18/2005
California	Santa Cruz	Santa Cruz	231 Felix Street	5/2/2006
California	Santa Cruz	Santa Cruz	870 17th Avenue	9/29/2006
California	Santa Cruz	Watsonville	216 Silverleaf Drive	10/17/2007
California	Santa Cruz	Santa Cruz	15769 Comstock Mill Road	3/13/2008
California	Santa Cruz	Capitola	1066 41st Avenue	9/12/2010
California	Shasta	Redding	1420 Arizona Street	2/2/2004
California	Shasta	Redding	781 S Street	3/21/2004
California	Shasta	Redding	12691 Williamson Rd	3/30/2004
California	Shasta	Anderson	6465 Saddle Trail Rd	7/29/2004
California	Shasta	Redding	80 Churn Creek Rd	7/18/2005
California	Shasta	Igo	14463 Windwalker Ln	3/27/2006
California	Shasta	Shingletown	7498 Hilda Rd	4/13/2006
California	Shasta	Redding	3115 Stratford Avenue	9/19/2006
California	Shasta	Redding	1571 College View Drive	8/29/2007
California	Shasta	Redding	13922a Sundust Road	3/11/2010
California	Siskiyou	Weed	208 Jackson St	2/21/2004
California	Siskiyou	Dorris	2100 Sheepy Island Rd 437	3/3/2004
California	Solano	Vallejo	1130 Monterey St	2/12/2004
California	Solano	Dixon	805 N Adams St 110	3/23/2004
California	Solano	Vallejo	1163 Lewis Ave	3/30/2004
California	Solano	Vallejo	618 Main St	4/20/2004
California	Solano	Vallejo	136 Hogan St	5/14/2004
California	Solano	Suisun City	515 Crested Dr	3/9/2005
California	Solano	Vacaville	7234 Shelton Ln	9/29/2005
California	Solano	Dixon	9155 Olmo Rd	3/3/2006
California	Solano	Vallejo	318 Taper Avenue	1/31/2008
California	Solano	Vacaville	148 Lomita Avenue	3/5/2008
California	Solano	Vallejo	264 Flyingcloud Court	4/30/2010
California	Stanislaus	Ceres	4837 Faith Home Rd 119	1/1/2004
California	Stanislaus	Oakdale	143 N 6th St	1/5/2004
California	Stanislaus	Modesto	3356 Maze W Blvd	1/17/2004
California	Stanislaus	Hickman	948 Hickman Rd	1/20/2004
California	Stanislaus	Modesto	1520 Prospect Ln	1/24/2004
California	Stanislaus	Stanislaus	13660 Carpenter Rd	2/7/2004
California	Stanislaus	Waterford	575 E St	3/5/2004
California	Stanislaus	Turlock	6407 Mitchell Rd	4/12/2004
California	Stanislaus	Turlock	1625 Larkspur St	6/29/2004
California	Stanislaus	Ceres	4022 Esmail Keyes	7/2/2004
California	Stanislaus	Modesto	2009 Monticello Ave	7/13/2004

California	Stanislaus	Modesto	1312 Mchenry 111	7/13/2004
California	Stanislaus	Modesto	1516 Bollinger Ct	9/1/2004
California	Stanislaus	Modesto	1240 N 9th St 10	9/5/2004
California	Stanislaus	Denair	5319 Berkeley Ave	9/19/2004
California	Stanislaus	Modesto	8100 Yosemite Blvd	10/3/2004
California	Stanislaus	Oakdale	13537 Orange Blossom Rd	10/22/2004
California	Stanislaus	Oakdale	410 Arboles Way	10/26/2004
California	Stanislaus	Turlock	265 Ironwood	10/30/2004
California	Stanislaus	Turlock	357 E Olive Ave	11/4/2004
California	Stanislaus	Oakdale	755 River Ave	11/29/2004
California	Stanislaus	Oakdale	445 N Fifth	12/6/2004
California	Stanislaus	Modesto	3708 Almeria Dr	12/11/2004
California	Stanislaus	Ceres	2033 Hackett Rd	1/18/2005
California	Stanislaus	Modesto	400 Algen Ave	2/2/2005
California	Stanislaus	Denair	4540 Arnold Rd	2/2/2005
California	Stanislaus	Modesto	1022 Calder Ct	3/26/2005
California	Stanislaus	Grayson	1705 Hito Dr	4/7/2005
California	Stanislaus	Modesto	205 Glacier Ave	1/18/2006
California	Stanislaus	Riverbank	3939 Minniear Ave	1/31/2006
California	Stanislaus	Modesto	3500 Plain View Road	3/7/2006
California	Stanislaus	Ceres	527 Mitchell Rd	3/22/2006
California	Stanislaus	Ceres	3707 Monte Vista E Ave	3/24/2006
California	Stanislaus	Modesto	1411 Scenic Drive	4/24/2006
California	Stanislaus	Modesto	110 Wisenor	5/18/2006
California	Stanislaus	Modesto	2008 Stracker Way	6/8/2006
California	Stanislaus	Modesto	620 Paradise Road	9/13/2006
California	Stanislaus	Modesto	306 Locust Street	9/14/2006
California	Stanislaus	Ceres	1743 Central	10/20/2006
California	Stanislaus	Modesto	665 7th Street	12/4/2006
California	Stanislaus	Modesto	1331 Paradise Road	6/3/2007
California	Stanislaus	Turlock	201 G Street	6/26/2007
California	Stanislaus	Turlock	1105 Berea	9/15/2007
California	Stanislaus	Turlock	1090 Denair Avenue	1/6/2008
California	Stanislaus	Newman	531 Lady Slipper	1/15/2008
California	Stanislaus	Turlock	1125 South Tegner Road A	2/16/2008
California	Stanislaus	Turlock	3800 Crowell Road	4/18/2008
California	Stanislaus	Modesto	1016 East Marlow	6/19/2008
California	Stanislaus	Hickman	861 Meier Road	6/19/2008
California	Stanislaus	Modesto	1016 Marlow	6/19/2008
California	Stanislaus	Turlock	590 Minaret Avenue	8/5/2008
California	Stanislaus	Ceres	112 Taylor Road	8/25/2008
California	Stanislaus	Ceres	1948 Evans Road	11/16/2008
California	Stanislaus	Ceres	1528 Evans Road	11/18/2008
California	Stanislaus	Turlock	677 North Soderquist Road	12/15/2008
California	Stanislaus	Denair	18000 Keyes Road	4/14/2009
California	Stanislaus	Turlock	4519 Moffett Road	4/22/2009
California	Stanislaus	Patterson	1830 Orange Avenue	5/3/2009
California	Stanislaus	Ceres	3107 Taylor Road	5/19/2009
California	Stanislaus	Ceres	3107 East Taylor Road	5/19/2009

California	Stanislaus	Turlock	6107 Mountain View Road	5/19/2009
California	Stanislaus	Modesto	1898 Skylane Way	5/21/2009
California	Stanislaus	Oakdale	20601 Warnerville Road	5/28/2009
California	Stanislaus	Turlock	460 Moffet Road	5/29/2009
California	Stanislaus	Riverbank	2924 Stanislaus Street	6/18/2009
California	Stanislaus	Oakdale	10742 Pioneer Avenue	6/30/2009
California	Stanislaus	Ceres	2329 6th Street	2/5/2010
California	Stanislaus	Turlock	1180 West Linwood Avenue	2/9/2010
California	Stanislaus	Riverbank	3238 Pocket Avenue	5/22/2010
California	Stanislaus	Newman	1200 Main Street	7/26/2010
California	Stanislaus	Modesto	1600 French	8/11/2011
California	Stanislaus	Hughson	1828 White Birtch Drive	8/28/2011
California	Stanislaus	Modesto	1749 Poland	2/9/2012
California	Sutter	Yuba City	2898 Mckenly Rd	1/11/2004
California	Sutter	Yuba City	1400 Lytle Rd	2/17/2004
California	Sutter	Yuba City	1718 Elmer Rd	3/10/2004
California	Sutter	Yuba City	1292 Harter Rd	5/11/2004
California	Sutter	Sutter	2235 Madrone St	5/17/2004
California	Sutter	Yuba City	1619 Franklin Rd K	6/7/2004
California	Sutter	Yuba City	1081 Northridge Dr	9/1/2004
California	Sutter	Yuba City	400 Walton N Ave 3	9/2/2004
California	Sutter	Yuba City	761 Chestnut St	10/18/2004
California	Sutter	Yuba City	413 Pine St	10/30/2004
California	Sutter	Yuba City	1368 Hutchinson A	11/5/2004
California	Sutter	Live Oak	2691 Stafford Dr	11/10/2004
California	Sutter	Yuba City	24 Central Ave	12/11/2004
California	Sutter	Yuba City	132 S Walton Ave A	12/22/2004
California	Sutter	Yuba City	1587 Gray Ave	2/15/2005
California	Sutter	Live Oak	9755 O St	4/7/2005
California	Sutter	Yuba City	1341 Dustin Dr 39	9/1/2005
California	Sutter	Yuba City	4098 Marlette Rd	1/23/2006
California	Sutter	Yuba City	1115 Marcia Avenue	2/18/2006
California	Sutter	Yuba City	1250 Kenny Drive	5/19/2006
California	Sutter	Yuba City	617 Forbes Avenue	1/2/2007
California	Tehama	Corning	6330 Piedmont Rd	9/27/2004
California	Tehama	Corning	323 Rio Del Rey Court	7/31/2006
California	Tehama	Red Bluff	19932 Sawtooth Drive	8/1/2006
California	Tehama	Los Molinos	24881 68th	4/28/2010
California	Trinity	Trinity Center	360 Maude Avenue	3/11/2007
California	Tulare	Woodville	16477 Hudson Ave	1/29/2004
California	Tulare	Porterville	27003 Avenue 120	2/7/2004
California	Tulare	Lindsay	1445 E Honolulu	3/24/2004
California	Tulare	Dinuba	39780 Road 56	3/31/2004
California	Tulare	Tulare	26442 99 Hwy 210	5/26/2004
California	Tulare	Porterville	1611 E Success Drive	1/7/2006
California	Tulare	Porterville	670 E Poplar	1/7/2006
California	Tulare	Cutler	39500 Road 136	4/28/2006
California	Tulare	Tipton	14144 Road 152	8/9/2006
California	Tulare	Dinuba	38929 Road 84	8/17/2006

California	Ventura	N/a	5892 Santa Clara Rd	2/22/2006
California	Ventura	Ventura	1300 Saratoga Street	5/4/2006
California	Ventura	Fillmore	2989 West W Telegraph Road Highway	6/14/2006
California	Ventura	Oxnard	765 Kohala Street	11/9/2006
California	Ventura	Thousand Oaks	982 East Janas Road	3/20/2007
California	Yolo	West Sacramento	1155 Linden Rd	1/13/2004
California	Yolo	Woodland	1730 Donner Way	3/10/2004
California	Yolo	West Sacramento	1900 Evergreen Avenue	3/30/2007
California	Yuba	Marysville	1118 I St	4/6/2004
California	Yuba	Marysville	1205 E 22nd St	4/12/2004
California	Yuba	Marysville	222 H St	4/14/2004
California	Yuba	Marysville	1804 Hile Ave C	5/12/2004
California	Yuba	Marysville	1505 Ramirez Rd	5/20/2004
California	Yuba	Arboga	13814 Charlies Ln	5/27/2004
California	Yuba	Marysville	5956 Park Ave O	7/18/2004
California	Yuba	Marysville	5818 Park Ave	8/3/2004
California	Yuba	Marysville	5931 Redburn Ave	8/8/2004
California	Yuba	Marysville	1735 N Beale Rd	9/10/2004
California	Yuba	Olivehurst	3735 Arboga Rd	9/27/2004
California	Yuba	Olivehurst	4456 College	9/28/2004
California	Yuba	Marysville	2209 Boulton Way	10/18/2004
California	Yuba	Marysville	976 Kay St	10/25/2004
California	Yuba	Olivehurst	1941 14th St	11/3/2004
California	Yuba	Olivehurst	4461 College Way	11/17/2004
California	Yuba	Marysville	5395 Feather River Blvd	12/21/2004
California	Yuba	Olivehurst	1696 10th Ave	1/27/2005
California	Yuba	Marysville	5528 Alicia Ave	2/22/2005
California	Yuba	Marysville	5696 Arboga Rd	3/9/2005
California	Yuba	Marysville	1100 E 17th St 36	5/18/2005
California	Yuba	Marysville	885 Grand Ave	5/24/2005
California	Yuba	Marysville	209 E St	12/13/2005
California	Yuba	Marysville	1097 Vine Ave	1/12/2006
California	Yuba	Olivehurst	1440 Broadway Rd	1/17/2006
California	Yuba	Loma Rica	5124 Wolf Trail	1/25/2006
California	Yuba	Olivehurst	3948 Shimer Rd	1/31/2006
California	Yuba	Olivehurst	4605 Summers Ln	1/31/2006
California	Yuba	Marysville	647 Ramirez Rd B	2/16/2006
California	Yuba	Marysville	714 Boyer Road	3/30/2006
California	Yuba	Marysville	5514 Feather River Boulevard	7/13/2006
California	Yuba	Marysville	8369 Hwy 70	10/3/2006
California	Yuba	Marysville	7340 Doc Adams Road	10/9/2006
California	Yuba	Marysville	1164 Redwood Avenue	6/11/2007
California	Yuba	Marysville	4499 East Erle Road	7/7/2007

National Flood Hazard Layer FIRMette

FEMA

117°15'28"W 33°11'29"N

117°14'51"W 33°10'59"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/15/2021 at 12:07 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.7
June 30, 2021

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

S Melrose Drive/Matagual Drive
APNs 166-280-60, -61 and -18
Vista, CA 92081

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

San Diego Recorder
San Diego, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	Jerry Michael & Christine M Suppa Trustees
Title received from:	Jerry Michael & Christine M Suppa Trustees
Deed Dated	5/17/2006
Deed Recorded:	5/24/2006
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Jerry Michael & Christine M Suppa Trustees
Parcel # / Property Identifier:	166-280-18-00, 166-280-60-00
Comments:	See Exhibit

Deed Exhibit 1

RECORDING REQUESTED BY:

Old Republic Title Company

ORDER #: 2515004383-CP
APN #: 166-280-18-00

WHEN RECORDED MAIL TO

Christine M. Suppa & Jerry Michael Suppa
PO BOX 836
Rancho Santa Fe, CA 92067

17879

DOC # 2006-0368438

MAY 24, 2006 4:40 PM
OFFICIAL RECORDS
SAN DIEGO COUNTY RECORDER'S OFFICE
GREGORY J. SMITH, COUNTY RECORDER
FEES: 16.00
OC: OC
PAGES: 4

2006-0368438

SPACE ABOVE THIS LINE FOR RECORDERS USE

Grant Deed

The undersigned grantor(s) declare(s):
Documentary transfer tax is $0.00 Vesting Correction
( ) computed on full value of property conveyed, or
( ) computed on full value less of liens and encumbrances remaining at time of sale.
( ) Unincorporated area: (x) City of Vista

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
Jerry Michael Suppa and Christine M. Suppa, Co-Trustees of the Suppa Family Trust, Dated February 15, 1987, who acquired title as Jerry Michael Suppa and Christine M Suppa, Co Trustees of their successors in Trust under the Suppa Family Trust Dated February 18, 1987 and any amendments hereto.
hereby GRANT(S) to
Jerry Michael Suppa and Christine M. Suppa, Co-Trustees of the Suppa Family Trust, Dated February 15, 1987

that property in City of Vista, San Diego County, State of California, described as follows:
See "Exhibit A" attached hereto and made a part hereof.

Mail Tax Statements to Grantee at address above

Date May 17, 2006

Christine M. Suppa, Co Trustee

Jerry Michael Suppa, Co Trustee

State of California

County of San Diego

On May 18, 2006 before me,
Kellie K Owen
a Notary Public in and for said State, personally appeared
Christine M. Suppa and
Jerry Michael Suppa

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

KELLIE K. OWEN
Commission # 1466501
Notary Public - California
San Diego County
My Comm. Expires Jan 29, 2008

WITNESS my hand and official seal.

Signature Kellie K Owen

Name Kellie K. Owen
(typed or printed)

FTGIS-140 8/94

(This area for official notarial seal)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

17880

ORDER NO. : 2515004383-3

EXHIBIT A

The land referred to is situated in the County of San Diego, City of Vista, State of California, and is described as follows:

Parcel B:

Lot 19 of Orleavo Heights Unit No. 5, in the City of Vista, County of San Diego, State of California, according to Map thereof No. 2131, filed in the Office of the County Recorder of San Diego County, September 25, 1928.

Excepting therefrom that portion described as follows:

Beginning at a point in the Northeasterly line of said Lot 19, distant thereon North 61°30' West, 59 feet from the most Easterly corner of said Lot 19:

Thence South 61°30' East along the Northeasterly line of said Lot 19, a distance of 59 feet;

Thence along the Southeasterly line of said Lot 19 as follows: South 57°20' West, 67 feet;

Thence South 38°20' West, 101.50 feet;

Thence South 31°00' West, 151 feet;

Thence leaving said Southeasterly line North 27°59'16" East, 309.57 feet, more or less to the Point of Beginning.

Also excepting that portion lying Westerly and Southerly of a line described as follows:

Beginning at the Northwest corner of said Lot;

Thence East along the Northerly line of said Lot, a distance of 238.58 feet to the True Point of Beginning of the herein described line;

Thence South 6°49'29" East, 183.88 feet to the Northerly line of land described in Deed to Gilbert T. Hinthorne, et ux, by Deed dated April 30, 1953 and recorded May 14, 1953 as File No. 66000 of Official Records;

Thence East along said Northerly line 41.42 feet to an angle point therein;

Thence continuing along said Northerly line South 61°50'35" East, 192.40 feet to the Northeast corner of said land and the end of the herein described line.

Parcel B-1:

An easement and right of way for ingress and egress for road purposes over a strip of land 10 feet in width lying within a portion of Lot 19 of Orleavo Heights Unit No. 5, in the City of Vista, County of San Diego, State of California, according to Map thereof No. 2131, filed in the Office of the County Recorder of San Diego County, September 25, 1928, the Northerly line being described as follows:

Beginning at an angle point in the Northerly line of said Lot 19 distant thereon 616.76 feet East from the Northwesterly corner of said Lot;

Thence South 27°59'16" West, 399.57 feet to the angle point in the Easterly line of said Lot formed by the intersection of the courses having a bearing of North 10° East and North 31° East;

Thence leaving said angle point North 61°50'35" West, 192.40 feet to the True Point of Beginning of the herein described line;

Thence West 280 feet to a point in the Westerly line of said Lot distant thereon North 6°49'29" West, 154 feet from the Southwesterly corner thereof. Said easement beginning in a line bearing South 61°50'35" East from the True Point of Beginning and ending in said Westerly line of said Lot.

Parcel B-2:

An easement and right of way for road purposes, over and across the Southerly 10.00 feet of that portion of Lot 19 of Orleavo Heights Unit No. 5, in the City of Vista, County of San Diego, State of California, according to Map thereof No. 2131, filed in the Office of the County Recorder of San Diego County, September 25, 1928, as described as follows:

Beginning at the Northwest corner of said Lot 19;

Thence East along the Northerly line of said Lot, a distance of 234.58 feet;

Thence South 6°49'29" East, 183.88 feet to the Northerly line of land conveyed to Gilbert T. Hinthorne, et ux, by Deed dated April 30, 1953 and recorded in Book 4854, Page 542 of Official Records;

Thence West along the North line of said land, 238.58 feet to the Westerly line of said Lot;

Thence North 6°49'29" West along said Westerly line 183.86 feet to the Point of Beginning.

Parcel B-3:

An easement for public utility purposes over, under, along and across the Northerly 6.00 feet of the Southerly 16.00 feet of that portion of Lot 19 of Orleavo Heights Unit No. 5, in the City of Vista, County of San Diego, State of California, according to Map thereof No. 2131, filed in the Office of the County Recorder of San Diego County, September 25, 1928, described as follows:

Beginning at the Northwest corner of said Lot 19;

17882

Thence East along the Northerly line of said Lot, a distance of 234.58 feet;

Thence South 6°49'29" East, 183.88 feet to the Northerly line of land conveyed to Gilbert T. Hinthorne, et ux, by Deed dated April 30, 1953 and recorded in Book 4854, Page 542 of Official Records;

Thence West along the North line of said land, 238.58 feet to the Westerly line of said Lot;

Thence North 6°49'29" West along said Westerly line 183.86 feet to the Point of Beginning.

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

MELROSE TEXACO (T0607300068) - (MAP)

SIGN UP FOR EMAI

210 S MELROSE DR
VISTA, CA 920836616
SAN DIEGO COUNTY
LUST CLEANUP SITE (INFO)
COMPLETED - CASE CLOSED AS OF 10/29/2013 - DEFINITION
PRINTABLE CASE SUMMARY / CSM REPORT

CUF Claim #:	1360
CUF Priority Assigned:	D
CUF Amount Paid:	$285,307

CLEANUP OVERSIGHT AGENCIES
SAN DIEGO COUNTY LOP *(LEAD)* - *CASE #: H*
CASEWORKER: JON SENAHA
SAN DIEGO RWQCB (REGION 9) - *CASE #: 9L*

Summary | Case Reviews | Cleanup Action Report | Regulatory Activities | Environmental Data (ESI) | Site Maps / Documents | Community Involvement | *Related Cases* | LUST CUF Data

Regulatory Profile

PRINTABLE CASE SUMM

CLEANUP STATUS - DEFINITIONS
COMPLETED - CASE CLOSED AS OF 10/29/2013 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
GASOLINE

POTENTIAL MEDIA OF CONCERN
AQUIFER USED FOR DRINKING WATER SUPPLY

FILE LOCATION
LOCAL AGENCY

DESIGNATED GROUNDWATER BENEFICIAL USE(S) - DEFINITIONS
MUN, AGR, IND

DWR GROUNDWATER SUB-BASIN NAME

CALWATER WATERSHED NAME
Carlsbad - Buena Vista Creek - Vista (904.22)

GROUNDWATER MONITORING FREQUENCY
OF WELLS MONITORED - SEMI-ANNUALLY : 9

Site History

Refer to "Site Maps/Documents" tab for Closure Summary/Letter

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APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.3
June 29, 2021

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

06/29/21

Site Name:

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Driv
Vista, CA 92081
EDR Inquiry # 6558122.3

Client Name:

Geotek
1548 North Maple Street
Corona, CA 92880
Contact: Kyle Mchargue

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Certified Sanborn Results:

Certification # 6B12-4F7E-B7BE

PO # 3706-SD

Project 3706-SD

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 6B12-4F7E-B7BE

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.6
June 29, 2021

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

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

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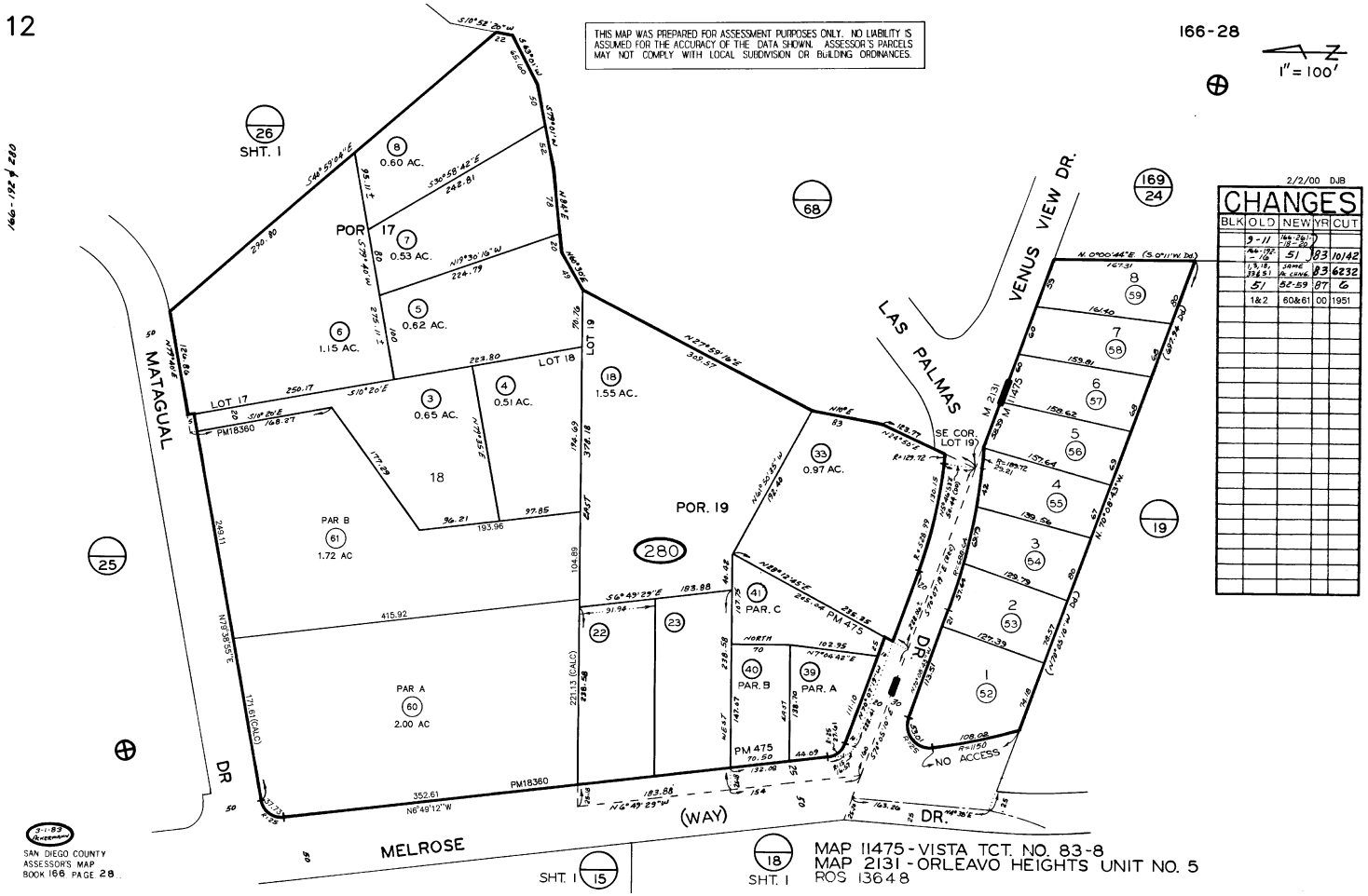
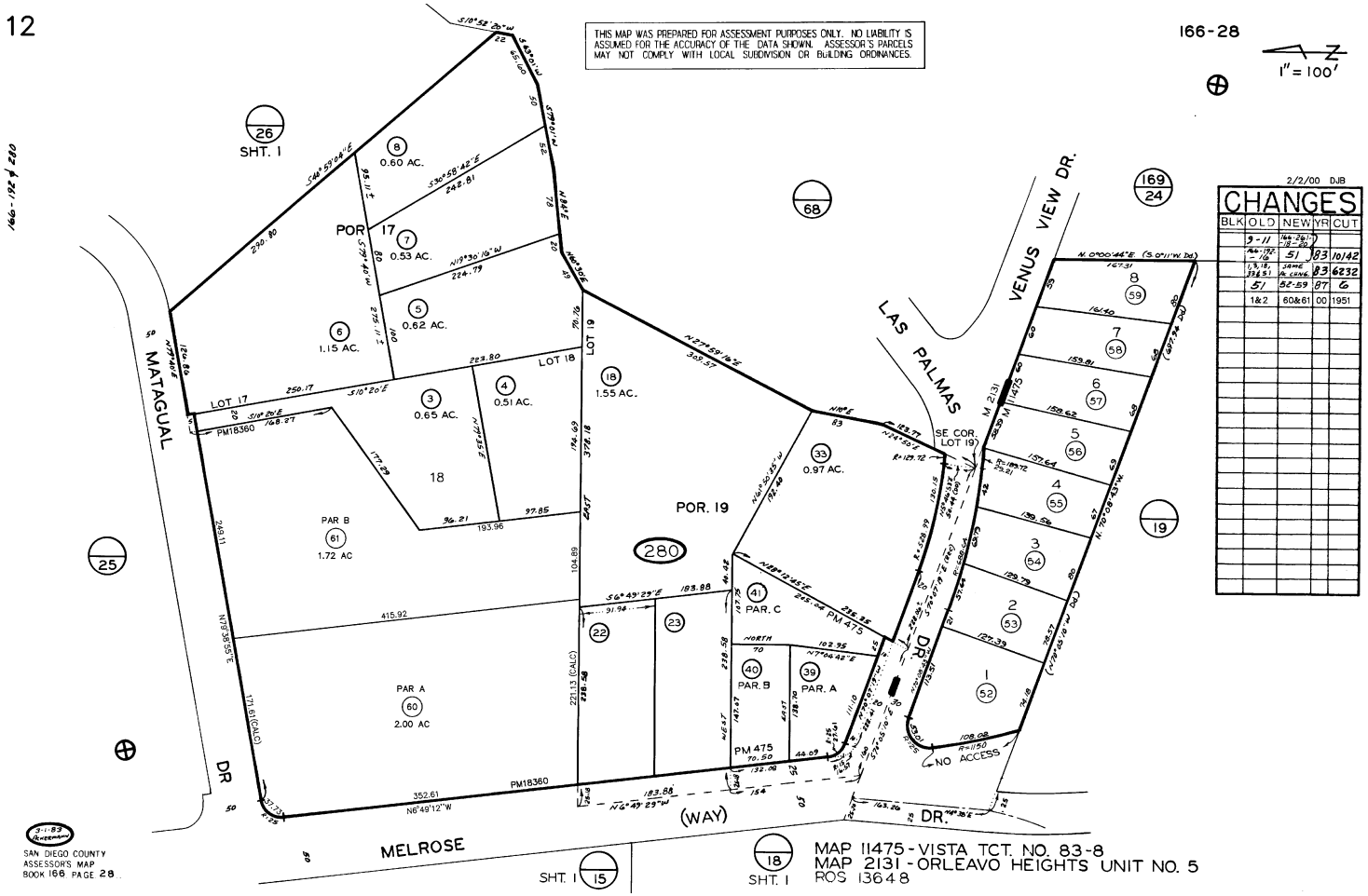

12
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.
166-28
1" = 100'
166-19 & 28
SHT. 1
26
8
0.60 AC.
POR 17
7
0.53 AC.
6
1.15 AC.
5
0.62 AC.
4
0.51 AC.
3
0.65 AC.
LOT 17
LOT 18
LOT 19
18
1.55 AC.
68
MATAGUAL
DR
LAS PALMAS
VENUS VIEW DR.
169
24
SE COR LOT 19
33
0.97 AC.
POR. 19
280
PAR B
61
1.72 AC
18
PAR. C
41
PAR. B
40
PAR. A
39
PAR A
60
2.00 AC
22
23
PM 475
PM18360
MELROSE
(WAY)
DR.
NO ACCESS
M 2131
M 11475
25
19
15
SHT. 1
18
SHT. 1
MAP 11475 - VISTA TCT. NO. 83-8
MAP 2131 - ORLEAVO HEIGHTS UNIT NO. 5
ROS 13648
SAN. DIEGO COUNTY
ASSESSOR'S MAP
BOOK 166 PAGE 28
2/2/00 DJB
CHANGES
BLK OLD NEW YR CUT
9-11 166-28(17) 18-22
166-192-10 51 83 10142
1, 8, 18, 19 & 21 SAME AS ORIG 83 6232
51 52-59 87 G
1&2 60&61 00 1951


12
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.
166-28
1" = 100'
166-132 & 280
SHT. 1
POR 17
0.60 AC.
0.53 AC.
0.62 AC.
1.15 AC.
0.65 AC.
0.51 AC.
1.55 AC.
0.97 AC.
LOT 17
LOT 18
LOT 19
PM18360
MATAGUAL DR
PAR B
1.72 AC
PAR A
2.00 AC
PAR. C
PAR. B
PAR. A
POR. 19
280
MELROSE (WAY)
SHT. 1 15
SHT. 1 18
MAP 11475 - VISTA TCT. NO. 83-8
MAP 2131 - ORLEAVO HEIGHTS UNIT NO. 5
ROS 13648
LAS PALMAS DR.
VENUS VIEW DR.
SE COR LOT 19
NO ACCESS
68
169/24
19
25
SAN. DIEGO COUNTY ASSESSOR'S MAP BOOK 166 PAGE 28
2/2/00 DJB
CHANGES
BLK OLD NEW YR CUT
9-11 166-28(17-22)
166-132-10 51 83 10142
1,5,18,19&21 SAME AS ORIG 83 6232
51 52-59 87 G
1&2 60&61 00 1951

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.4
June 29, 2021

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

06/29/21

Site Name:

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Driv
Vista, CA 92081
EDR Inquiry # 6558122.4

Client Name:

Geotek
1548 North Maple Street
Corona, CA 92880
Contact: Kyle Mchargue

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Search Results:

P.O.# 3706-SD
Project: 3706-SD

Coordinates:

Latitude:	33.187338 33° 11' 14" North
Longitude:	-117.253 -117° 15' 11" West
UTM Zone:	Zone 11 North
UTM X Meters:	476415.84
UTM Y Meters:	3672084.07
Elevation:	353.80' above sea level

Maps Provided:

2012	1901
1996, 1997	1898
1983	1893
1975	
1968	
1949	
1948	
1947	

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Topo Sheet Key

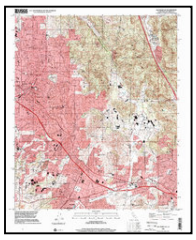
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

San Marcos
2012
7.5-minute, 24000

San Luis Rey
2012
7.5-minute, 24000

1996, 1997 Source Sheets



San Marcos
1996
7.5-minute, 24000
Aerial Photo Revised 1996

San Luis Rey
1997
7.5-minute, 24000
Aerial Photo Revised 1997

1983 Source Sheets

San Marcos
1983
7.5-minute, 24000
Aerial Photo Revised 1980

1975 Source Sheets

San Luis Rey
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Topo Sheet Key

T□is EDR Topo Map Report is based upon t□e follo□ing USGS topograp□ic map s□eets□

1968 Source Sheets

San Marcos
1968
7.5-minute, 24000
Aerial Photo Revised 1967

San Luis Rey
1968
7.5-minute, 24000
Aerial Photo Revised 1967

1949 Source Sheets

San Luis Rey
1949
7.5-minute, 24000
Aerial Photo Revised 1946

San Marcos
1949
7.5-minute, 24000
Aerial Photo Revised 1946

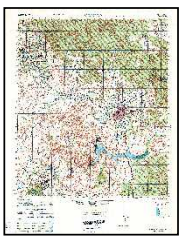
1948 Source Sheets

San Luis Rey
1948
7.5-minute, 24000
Aerial Photo Revised 1946

San Marcos
1948
7.5-minute, 24000
Aerial Photo Revised 1946

1947 Source Sheets

OCEANSIDE
1947
15-minute, 50000



ESCONDIDO
1947
15-minute, 50000

Topo Sheet Key

T□is EDR Topo Map Report is based upon t□e follo□ing USGS topograp□ic map s□eets□

1901 Source Sheets

Oceanside
1901
15-minute, 62500

Escondido
1901
15-minute, 62500

1898 Source Sheets

Oceanside
1898
15-minute, 62500

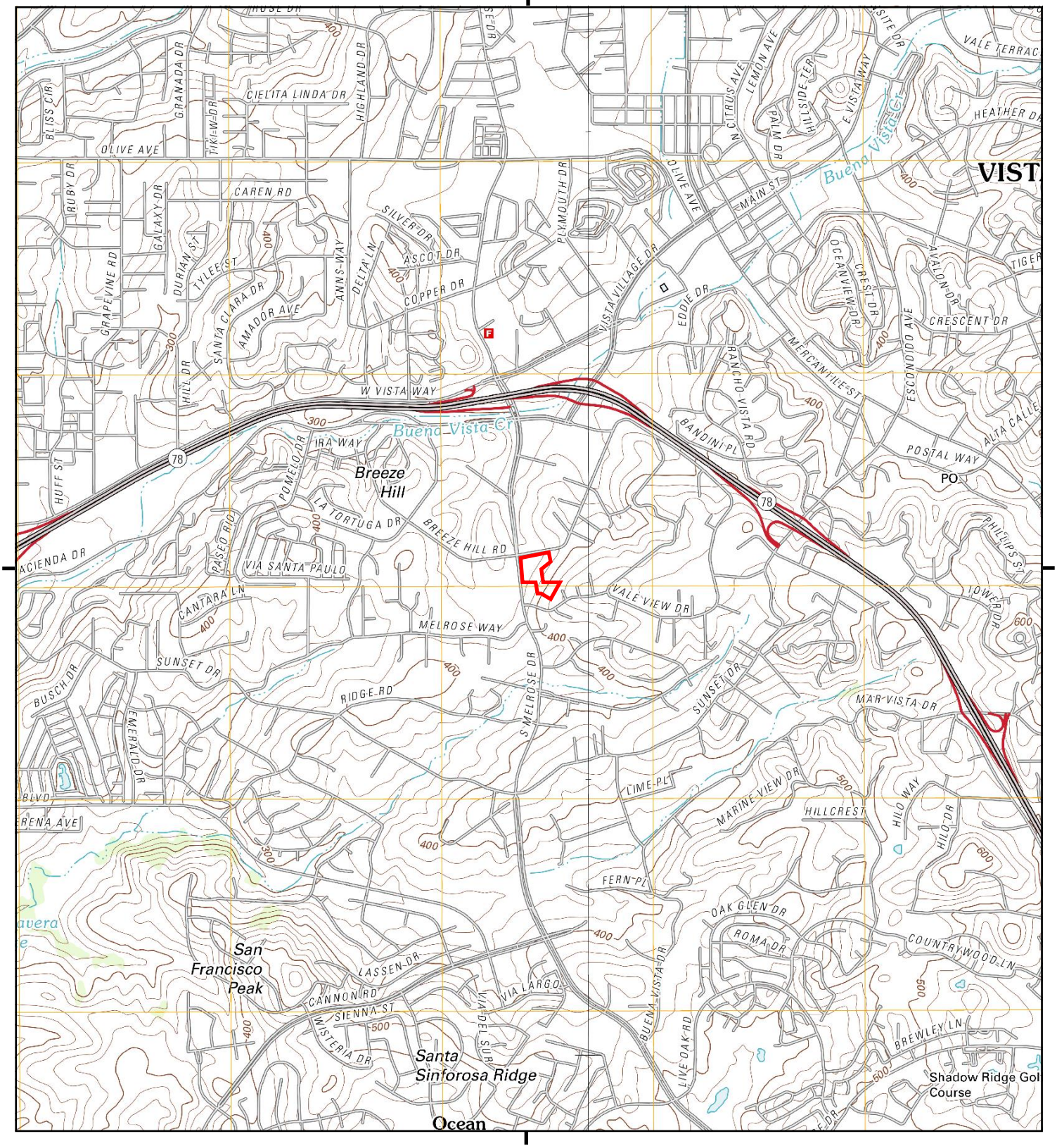
1893 Source Sheets

Escondido
1893
15-minute, 62500

Oceanside
1893
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheets:

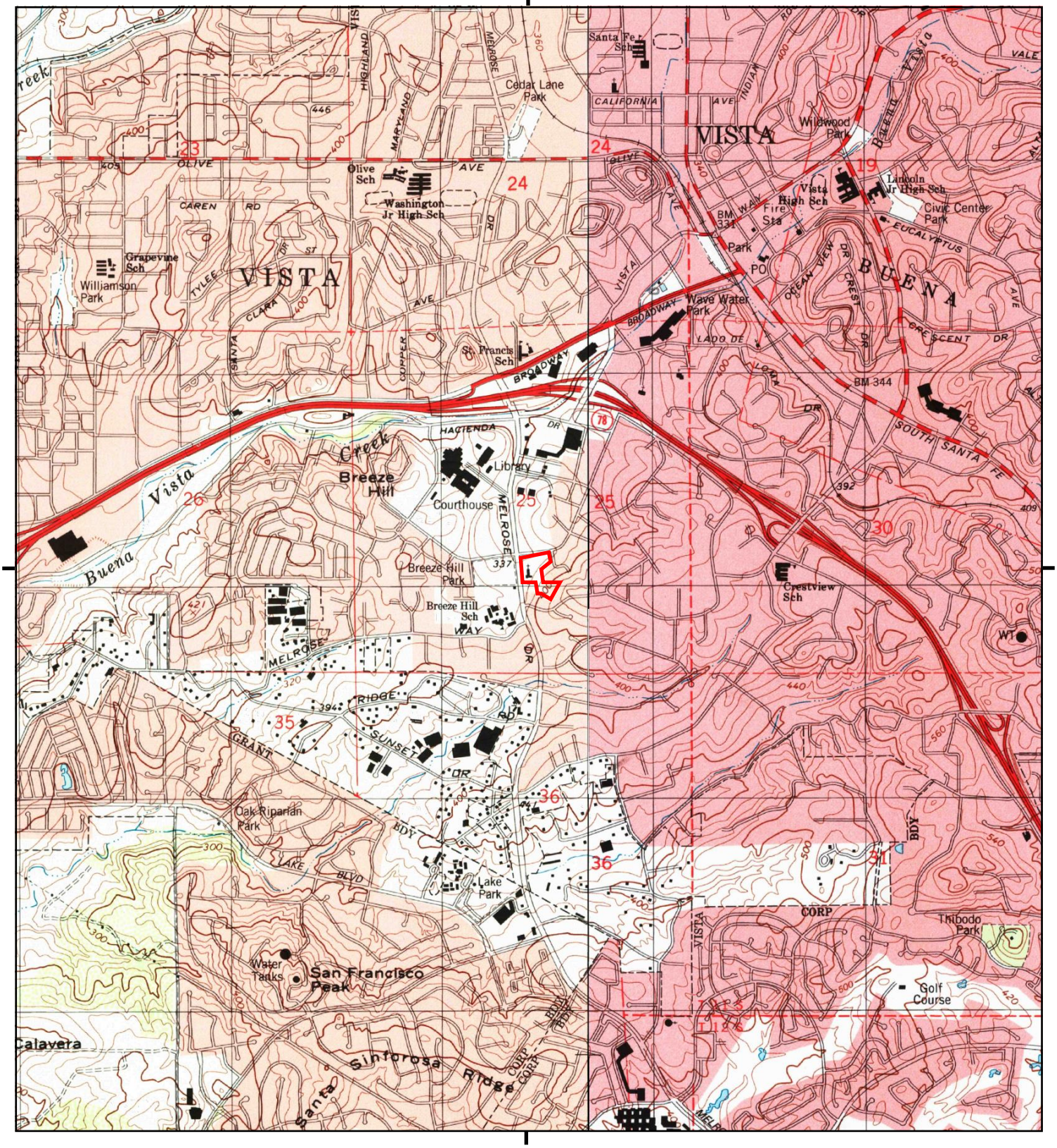
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

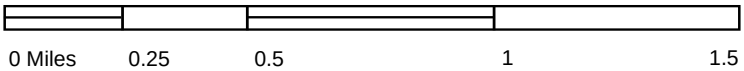
TP, San Luis Rey, 2012, 7.5-minute
E, San Marcos, 2012, 7.5-minute

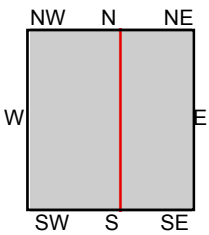
SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



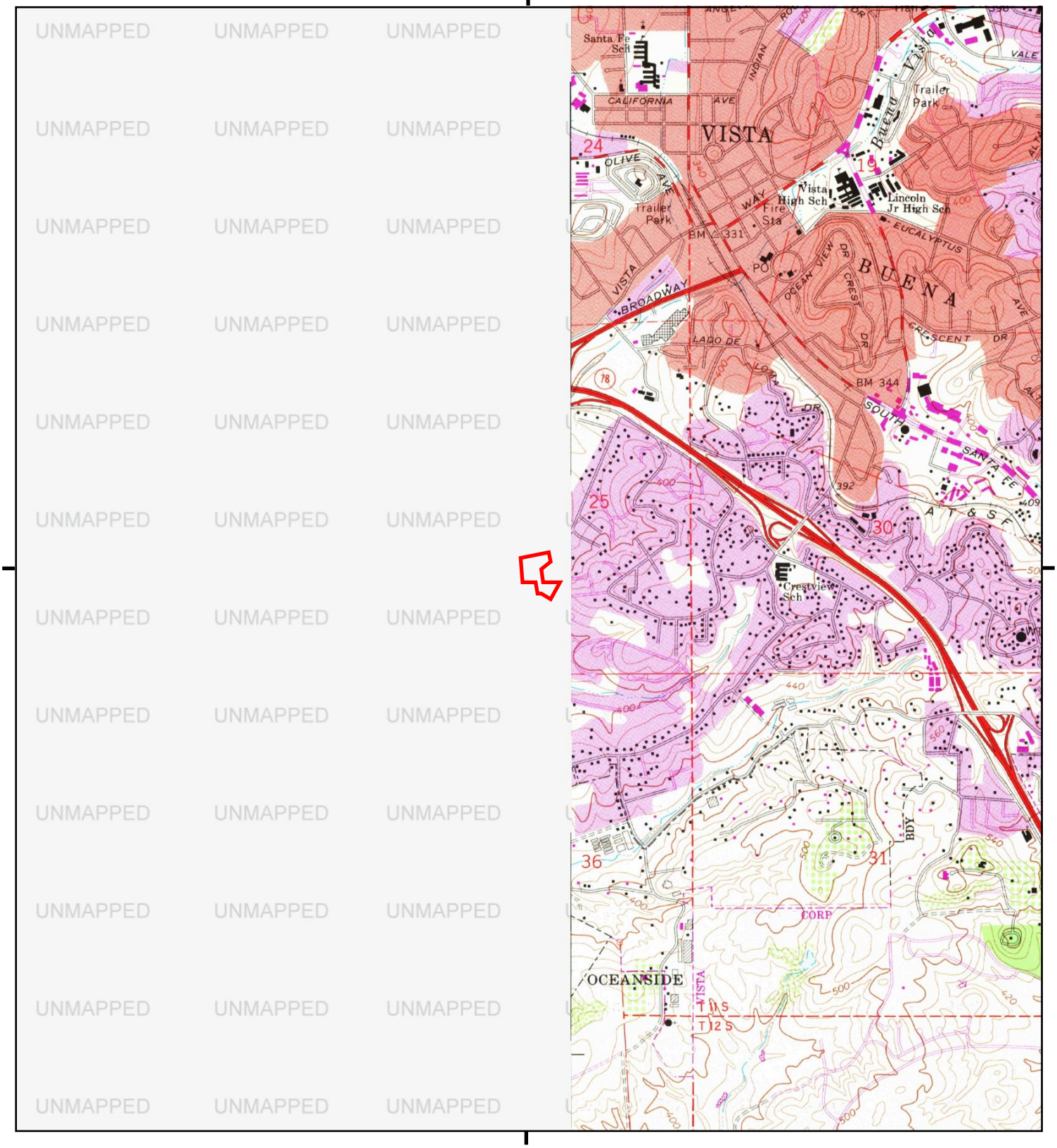
This report includes information from the following map sheets:





TP, San Luis Rey, 1997, 7.5-minute
E, San Marcos, 1996, 7.5-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek



This report includes information from the following map sheets:

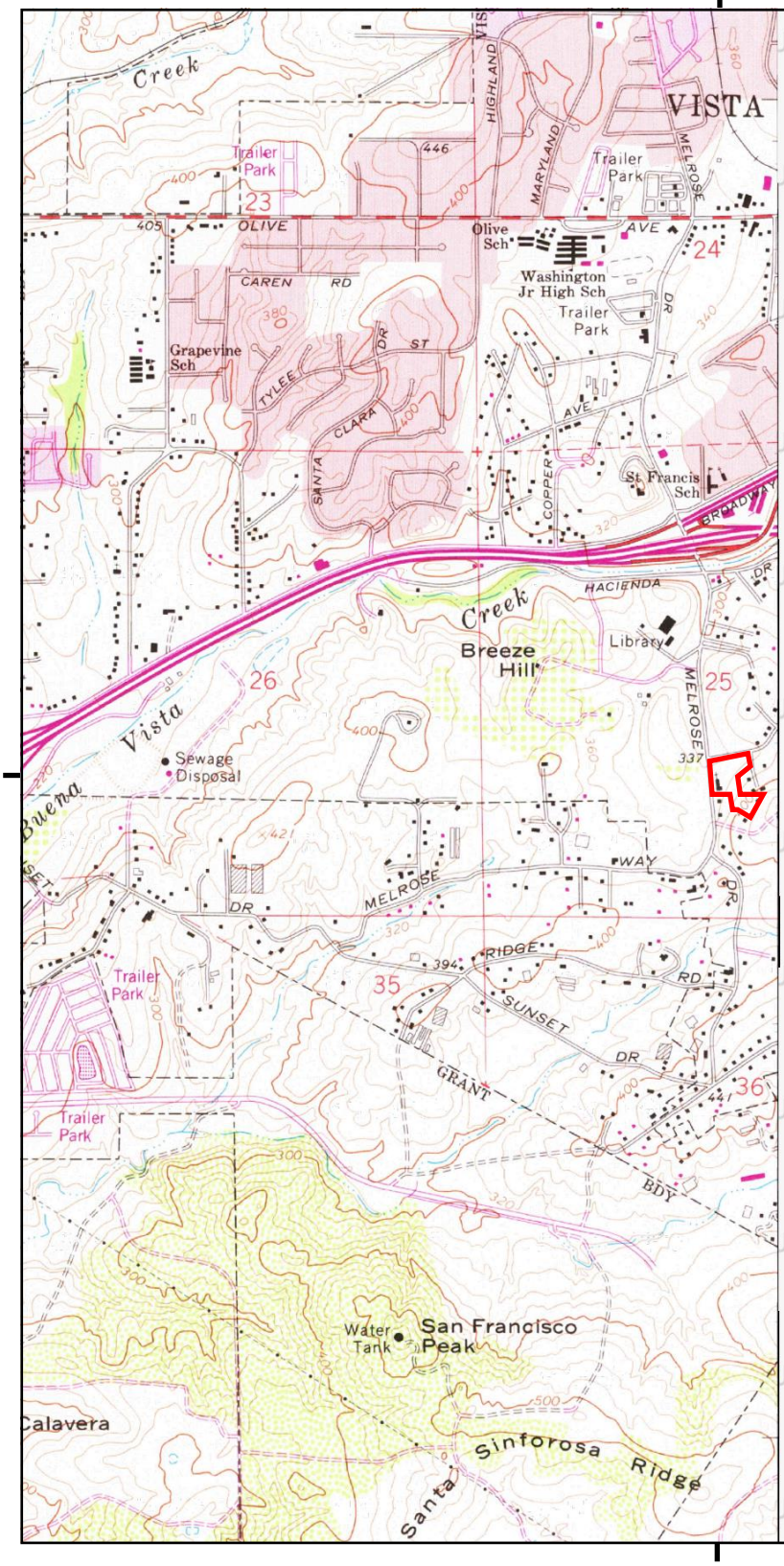
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

E, San Marcos, 1983, 7.5-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



UNMAPPED

This report includes information from the following map sheets.

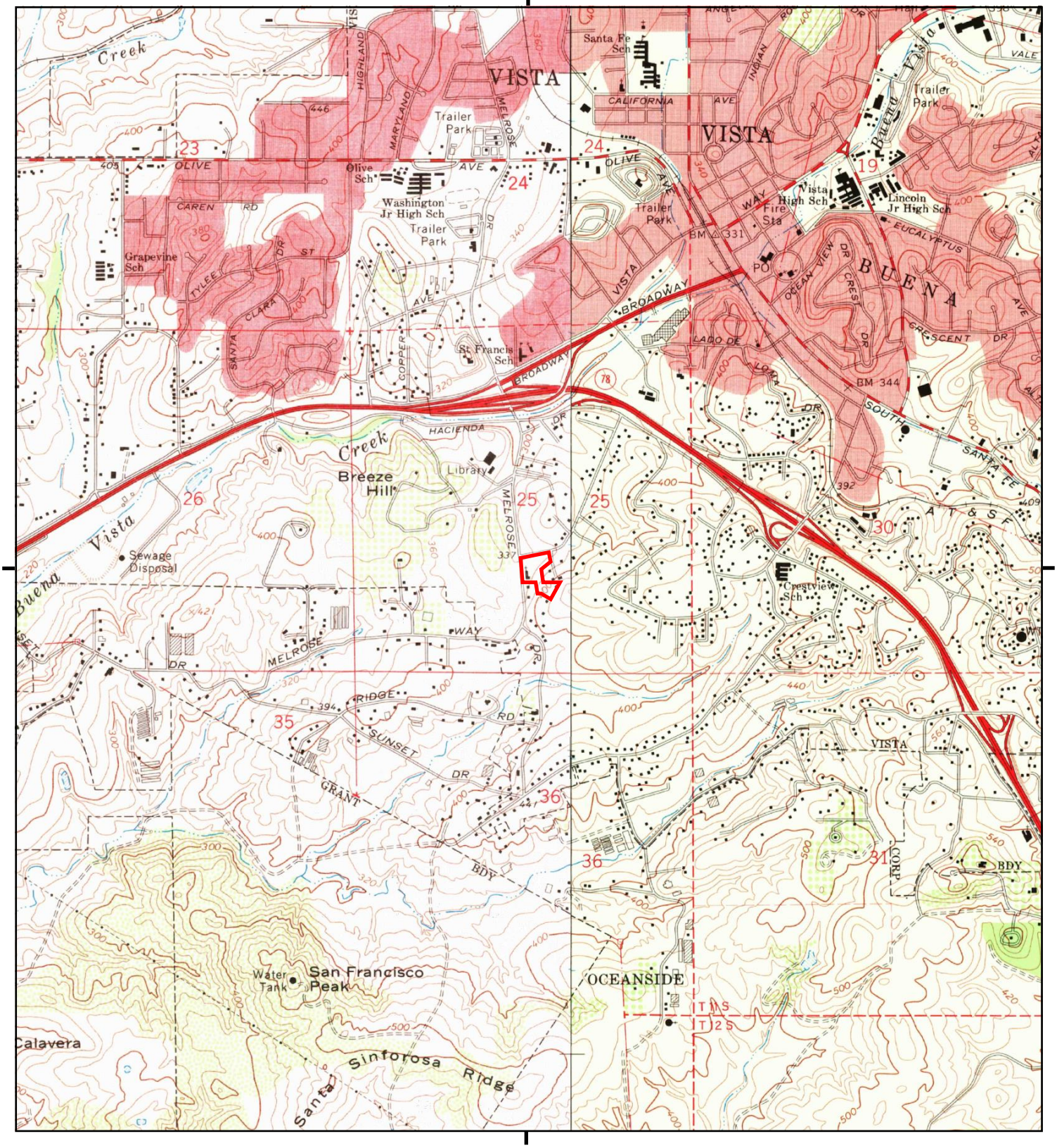
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Luis Rey, 1975, 7.5-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



This report includes information from the following map sheets:

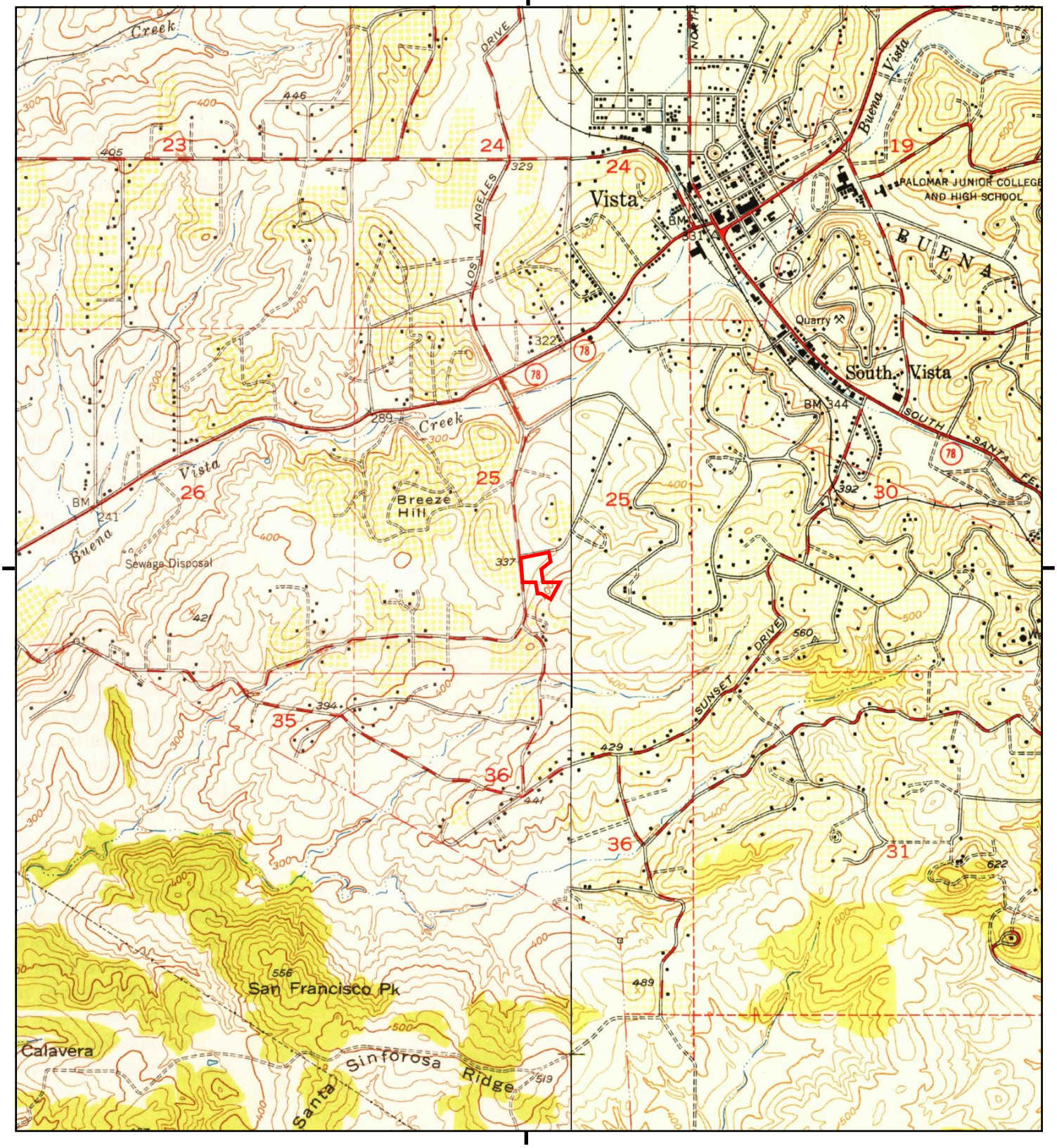
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Luis Rey, 1968, 7.5-minute
E, San Marcos, 1968, 7.5-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



0 Miles 0.25 0.5 1 1.5

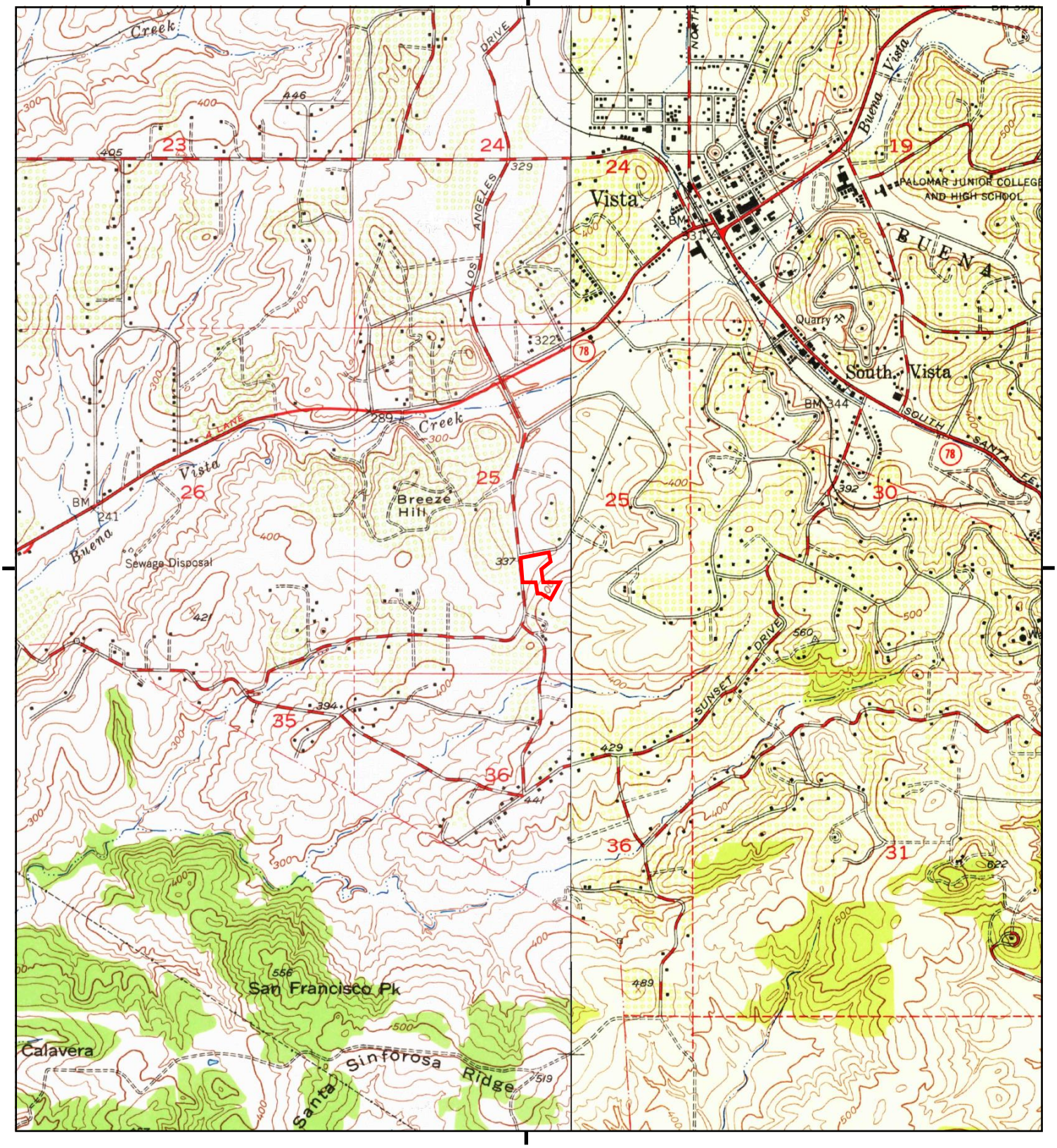
This report includes information from the following map sheets.

NW N NE
W E
SW S SE

TP, San Luis Rey, 1949, 7.5-minute
E, San Marcos, 1949, 7.5-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



T□is report includes information from t□e follo□ing map s□eet□s□□

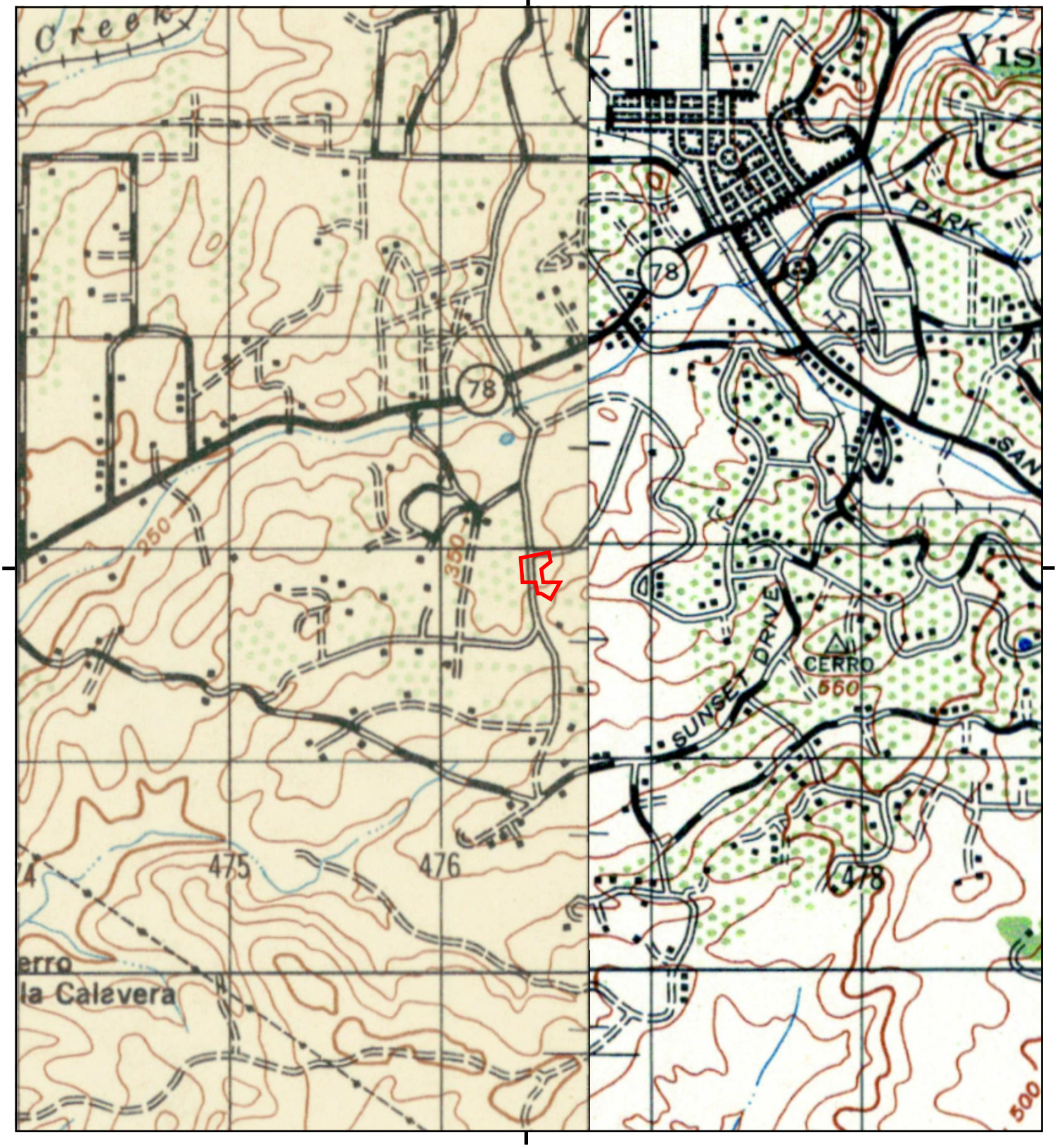
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Luis Rey, 1948, 7.5-minute
E, San Marcos, 1948, 7.5-minute

SITE □AME□ APNs 166-280-60, -61 and -18
ADDRESS□ S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIE□T□ Geotek

N



This report includes information from the following map sheets.

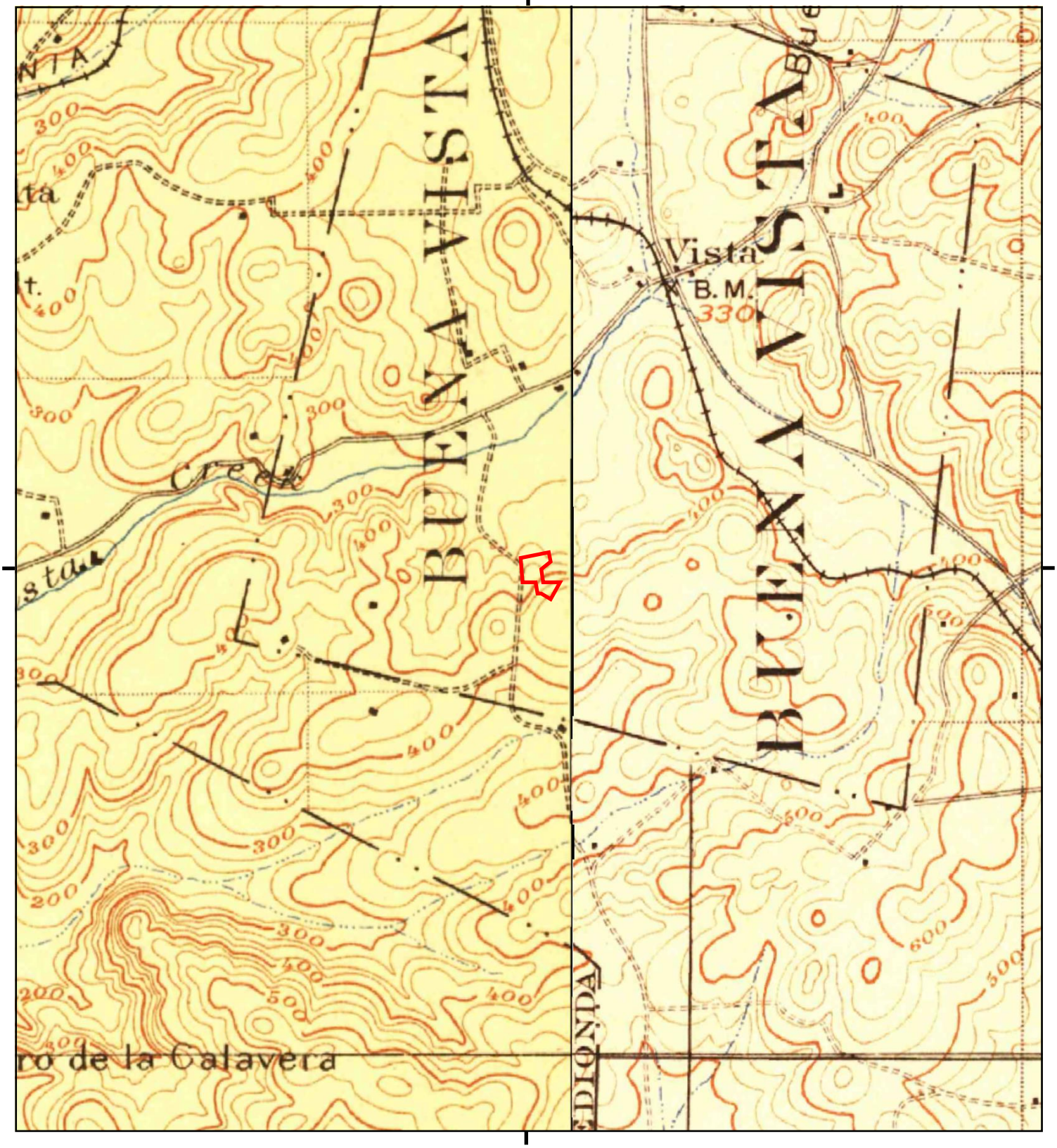
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, OCEANSIDE, 1947, 15-minute
SE, ESCONDIDO, 1947, 15-minute

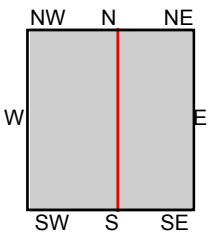
SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



This report includes information from the following map sheets.

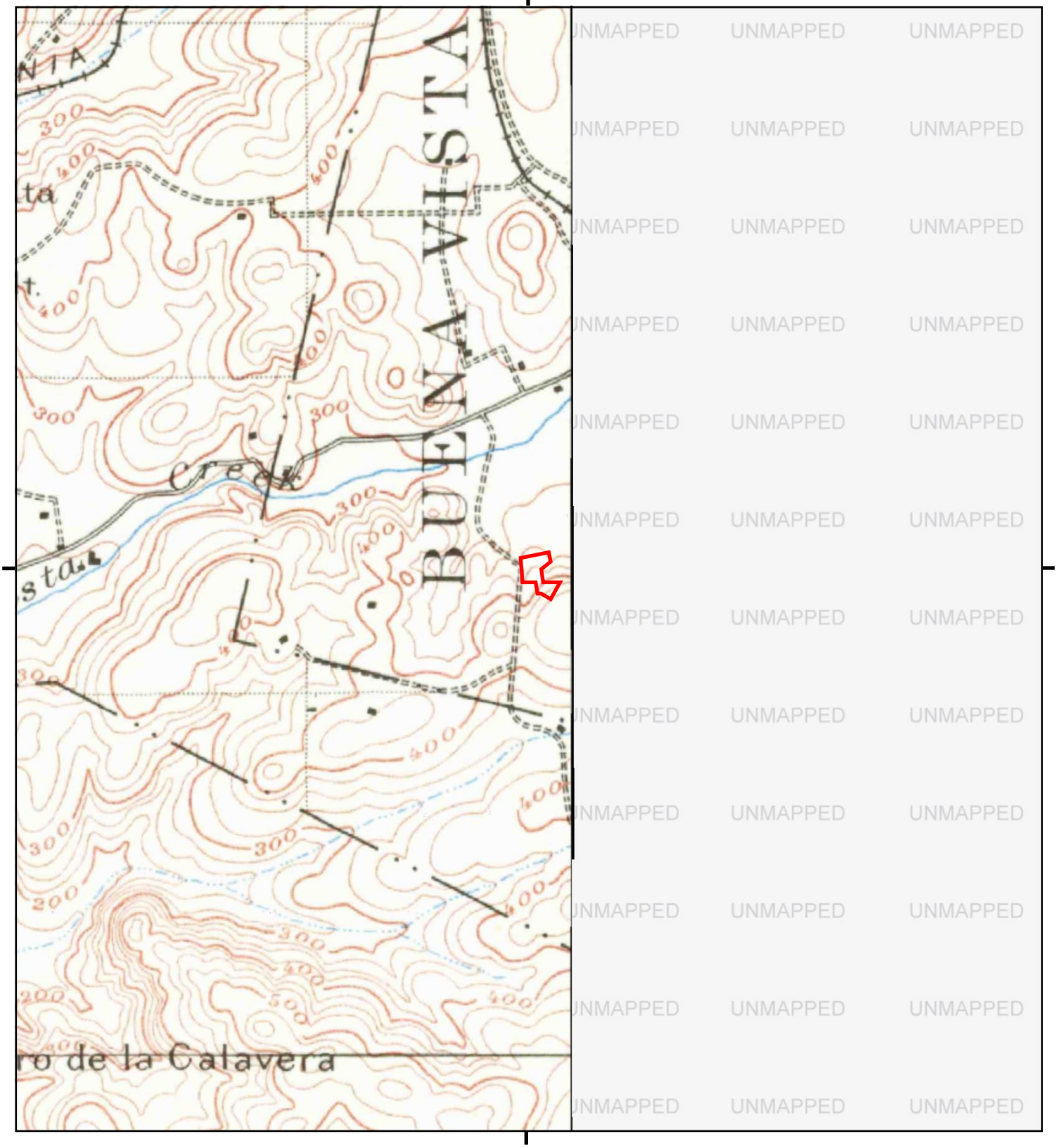
0 Miles 0.25 0.5 1 1.5



TP, Oceanside, 1901, 15-minute
SE, Escondido, 1901, 15-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



This report includes information from the following map sheets.

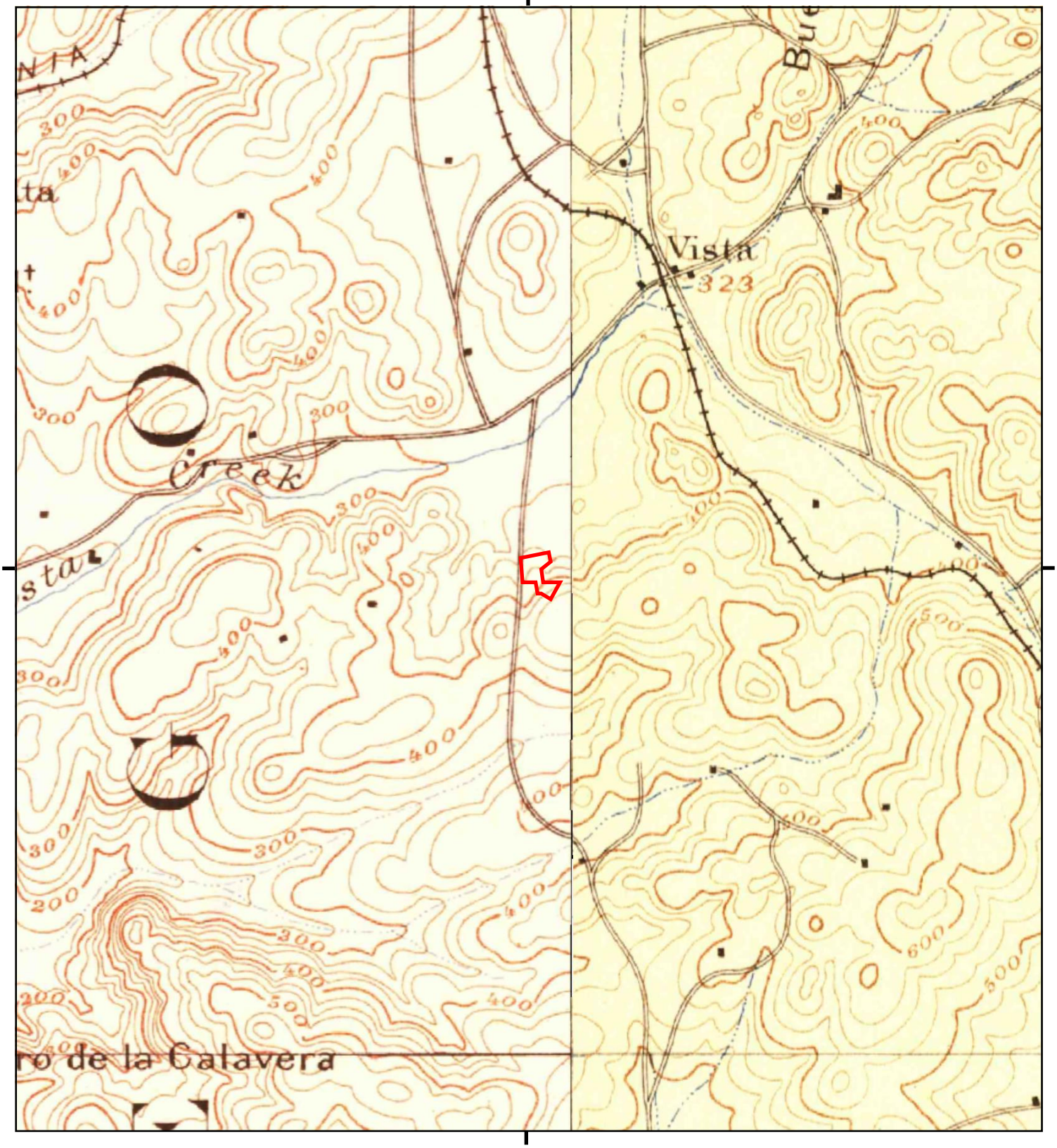
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Oceanside, 1898, 15-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N



This report includes information from the following map sheets.

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Oceanside, 1893, 15-minute
SE, Escondido, 1893, 15-minute

SITE NAME: APNs 166-280-60, -61 and -18
ADDRESS: S Melrose Drive/Matagual Drive
Vista, CA 92081
CLIENT: Geotek

N

USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002, the *user* must provide the following information (if available) to the *environmental professional.* Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

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

CIRCLE YES *or* NO

If yes, please explain in detail.

(2) Are you aware of any Act Use Limitations (AUL), 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 *or* NO

If yes, please explain.

(3) As the *user* of this Environmental Site Assessment (ESA) do you have any specialized knowledge or familiarity related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or its neighboring *property,* so that you may have specific knowledge of the chemicals and processes used by this type of business?

YES *or* NO

If yes, please explain.

(4) Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?

YES *or* NO Confidential

If you believe that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

YES *or* NO

If yes, please explain.

(5) Are you aware of commonly known or *reasonably* ascertainable information that would help the *environment professional* to identify conditions pinpointing releases or threaten releases of hazardous materials and/ or chemicals? For example, as user,

(a.) Do you know of any past uses of the *property?* YES or NO

(b.) Do you know of specific chemicals that are present or once were present at the *property*? YES or NO

(c.) Do you know of any chemical spills or any other chemical releases that have taken place at the *property?* YES or NO

(d.) Do you know of any environmental cleanups that have taken place at the *property*? YES *or* NO

If any yes, please explain.

(6) As the user of this Environmental Site Assessment (ESA), based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of a contamination at the *property*?

YES or NO

If yes, please explain.

Completed By Michael Torres
Print Name

APPENDIX C

PHOTOGRAPHS

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

1. View southeast from north portion of property. Structures on adjacent property.

2. View southwest from north portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

3. View west from north portion of property. Showing Matagual Drive.

4. View south from northwest portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

5. View east from northwest portion of property.

6. Showing religious facility on west-central portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

7. Showing religious facility on west-central portion of property

8. View north from west-central portion of property

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

9. Showing religious facility on west-central portion of property

10. View north from central portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

11. View southwest from northeast portion of property.

12. View west-northwest from northeast portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

13. View north from central portion of property.

14. View south from central portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

15. View north from southeast portion of property. Residence on adjacent property.

16. View southwest from southeast portion of property. Residence on adjacent property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

17. View northwest from southwest portion of property. RV on adjacent property.

18. View east from southeast portion of property. Showing driveway to single-family residence.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

19. View north from southwest portion of property.

20. View of single-family residence on southeast portion of property.

GEOTEK

PHOTOGRAPHS
APN's 166-280-60, -61, and -18
Vista, San Diego County, California

21. View of single-family residence on southeast portion of property.

APPENDIX D

VAPOR ENCROACHMENT SCREEN

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.2s
July 15, 2021

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

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

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Primary Map	**2**
Secondary Map	**3**
Map Findings	**4**
Record Sources and Currency	**GR-1**

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

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This report contains information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANYSUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES.ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this report "AS IS". Any analyses, estimates, ratings, or risk codes provided in this report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can produce information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Federal NPL site list	1.0	0	0	0
Federal Delisted NPL site list	1.0	0	0	0
Federal CERCLIS list	0.5	0	0	0
Federal CERCLIS NFRAP site list	0.5	0	0	0
Federal RCRA CORRACTS facilities list	1.0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list	0.5	0	0	0
Federal RCRA generators list	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	0.001	0	0	-
State- and tribal - equivalent NPL	1.0	0	0	0
State- and tribal - equivalent CERCLIS	1.0	0	0	0
State and tribal landfill and/or solid waste disposal site lists	0.5	0	0	0
State and tribal leaking storage tank lists	0.5	0	0	0
State and tribal registered storage tank lists	0.25	0	0	0
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.5	0	0	0
State and tribal Brownfields sites	0.5	0	0	0

ADDITIONAL ENVIRONMENTAL RECORDS				
Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	1.0	0	0	0
Local Lists of Registered Storage Tanks	0.25	0	0	0
Local Land Records	0.5	0	0	0
Records of Emergency Release Reports	0.5	0	0	0
Other Ascertainable Records	1.0	0	0	0

EDR HIGH RISK HISTORICAL RECORDS				
EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

APNS 166-280-60, -61 AND -18
S MELROSE DRIVE/MATAGUAL DRIVE
VISTA, CA 92081

COORDINATES

Latitude (North):	33.187338 - 33° 11′ 14.423218″
Longitude (West):	117.253 - 117° 15′ 10.794067″
Elevation:	352 ft. above sea level

EXECUTIVE SUMMARY

SEARCH RESULTS

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

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page

Not Reported

ADDITIONAL ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page

Not Reported

EDR HIGH RISK HISTORICAL RECORDS

Name	Address	Dist/Dir	Map ID	Page

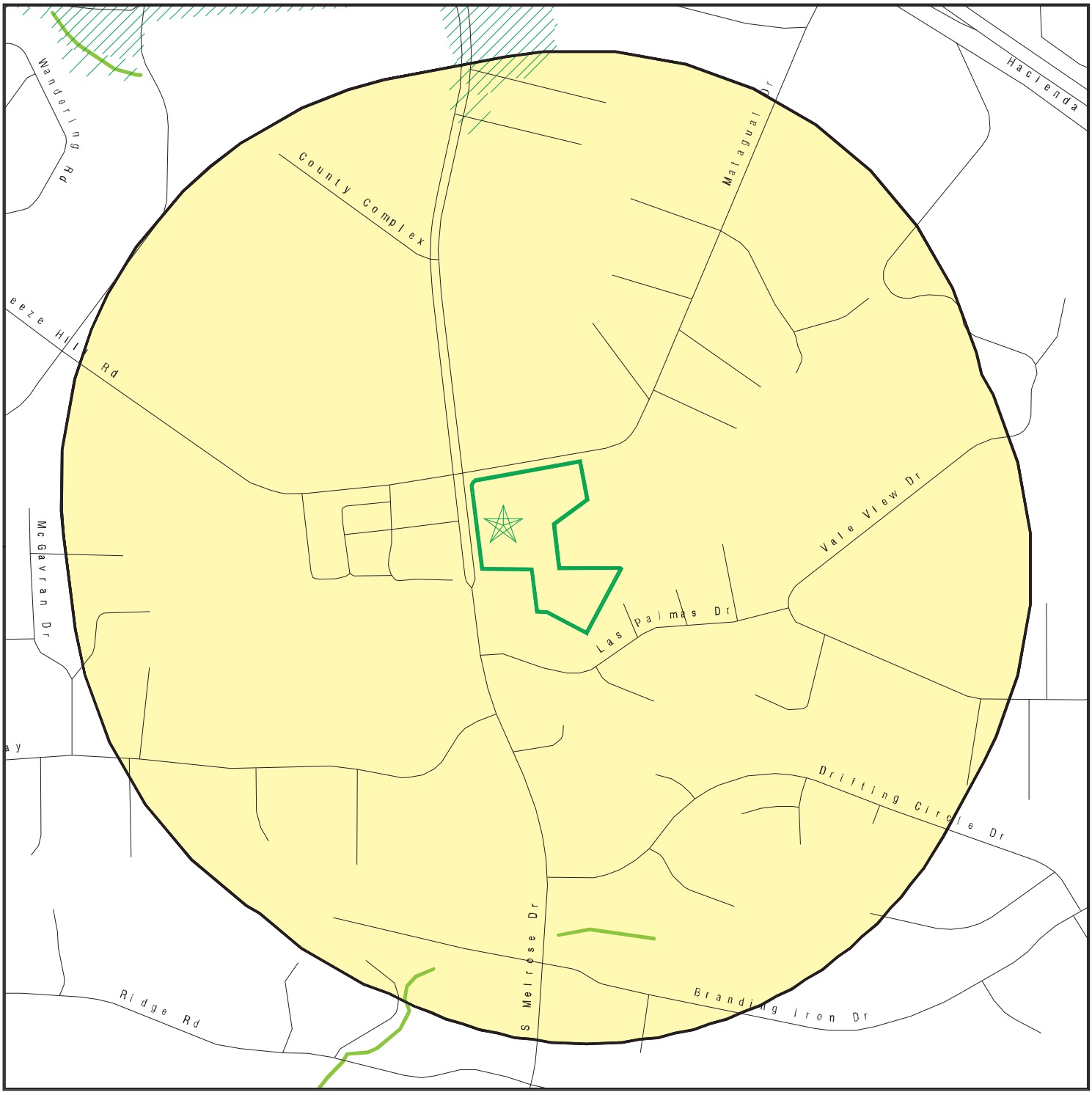
Not Reported

EDR RECOVERED GOVERNMENT ARCHIVES

Name	Address	Dist/Dir	Map ID	Page

Not Reported

PRIMARY MAP - 6558122.2S



- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- 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:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
LAT/LONG:	33.187338 / 117.253	INQUIRY #:	6558122.2s
		DATE:	June 29, 2021 7:06 pm

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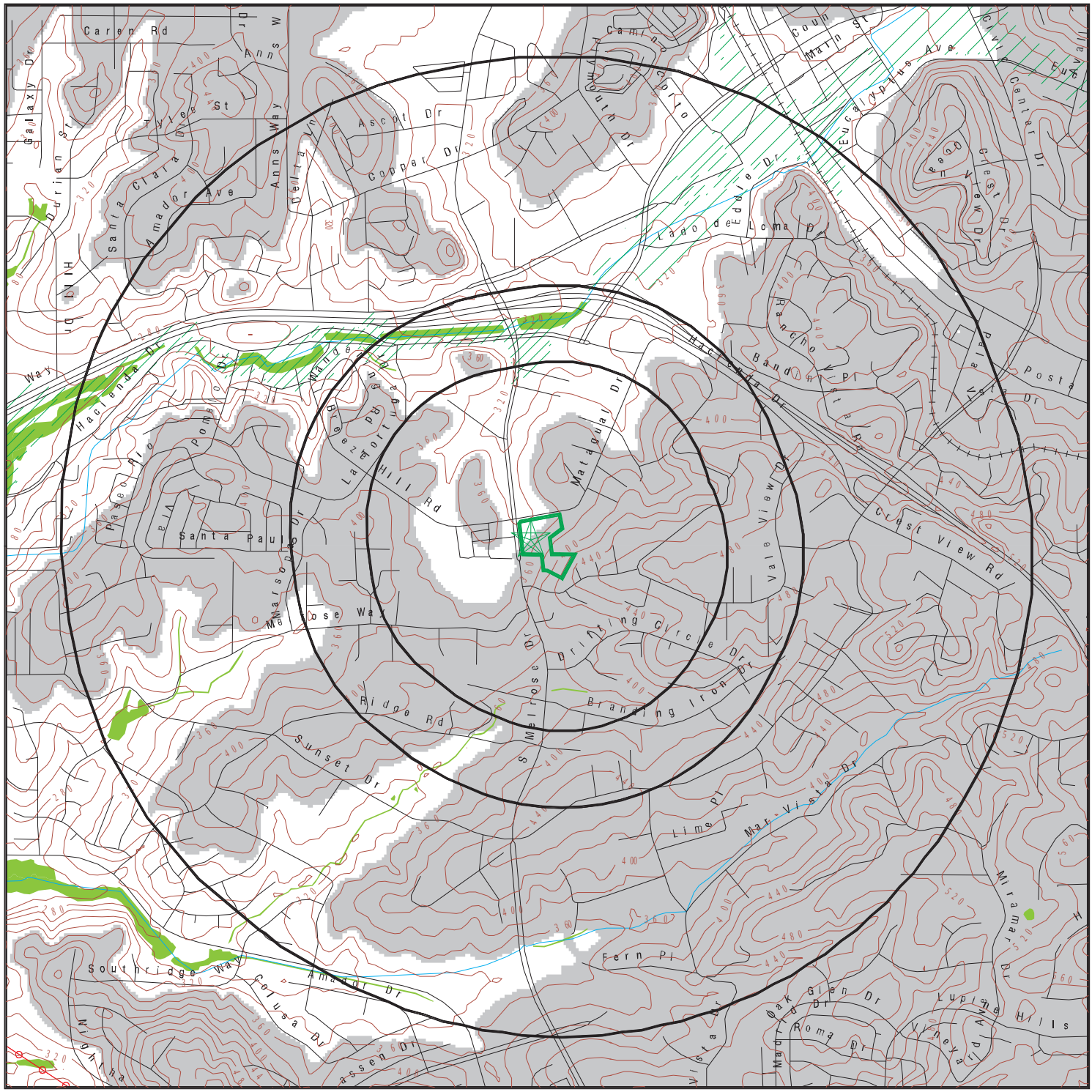
SECONDARY MAP - 6558122.2S



- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- 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:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
LAT/LONG:	33.187338 / 117.253	INQUIRY #:	6558122.2s
		DATE:	June 29, 2021 7:05 pm

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MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**			EDR SITE ID NUMBER
◆ **MAP ID#**	Direction Distance Range Relative Elevation	(Distance feet / miles) Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:

Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS						
Federal NPL site list						
US	NPL	National Priority List	EPA	04/27/2021	05/03/2021	05/19/2021
US	Proposed NPL	Proposed National Priority List Sites	EPA	04/27/2021	05/03/2021	05/19/2021
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
Federal CERCLIS list						
US	SEMS	Superfund Enterprise Management System	EPA	04/27/2021	05/03/2021	05/19/2021
Federal RCRA CORRACTS facilities list						
US	CORRACTS	Corrective Action Report	EPA	03/22/2021	03/23/2021	05/19/2021
Federal RCRA TSD facilities list						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
Federal RCRA generators list						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
Federal institutional controls / engineering controls registries						
US	LUCIS	Land Use Control Information System	Department of the Navy	02/09/2021	02/11/2021	03/22/2021
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	02/22/2021	02/23/2021	05/19/2021
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	02/22/2021	02/23/2021	05/19/2021
Federal ERNS list						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/22/2021	03/24/2021	06/17/2021
State and tribal - equivalent NPL						
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
State and tribal - equivalent CERCLIS						
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
State and tribal landfill / solid waste disposal						
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	02/08/2021	02/09/2021	05/03/2021
State and tribal leaking storage tank lists						
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	LUST REG 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/01/2020	12/16/2020	03/12/2021
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victorv	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
State and tribal registered storage tank lists						
CA	UST	Active UST Facilities	SWRCB	03/08/2021	03/09/2021	03/31/2021
CA	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	03/05/2021	03/09/2021	04/01/2021
CA	MILITARY UST SITES	Military UST Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/01/2020	12/16/2020	03/12/2021
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/07/2020	12/16/2020	03/12/2021
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/29/2021	02/17/2021	03/22/2021
State and tribal voluntary cleanup sites						
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
State and tribal Brownfields sites						
CA	BROWNFIELDS	Considered Brownfieds Sites Listing	State Water Resources Control Board	03/22/2021	03/23/2021	06/10/2021
Other Records						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2020	01/13/2021	03/22/2021
US	ROD	Records Of Decision	EPA	04/27/2021	05/03/2021	05/19/2021
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	04/27/2021	05/03/2021	05/19/2021
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
CA	SWRCY	Recycler Database	Department of Conservation	03/09/2021	03/09/2021	03/31/2021
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea	02/11/2021	02/11/2021	05/05/2021
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	03/22/2021	03/23/2021	06/17/2021
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2019	12/01/2020	02/09/2021
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	04/27/2021	05/03/2021	05/19/2021
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	Delisted NPL	National Priority List Deletions	EPA	04/27/2021	05/03/2021	05/19/2021
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	04/27/2021	05/03/2021	05/19/2021
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/22/2021	03/24/2021	06/17/2021
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	03/15/2021	03/16/2021	06/10/2021
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	02/11/2021	02/17/2021	04/05/2021
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	02/01/2021	02/24/2021	05/19/2021
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	05/27/2021	05/27/2021	06/10/2021
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	12/30/2020	01/14/2021	03/05/2021
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2018	08/14/2020	11/04/2020
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/17/2020	09/10/2020

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	01/20/2021	01/21/2021	03/22/2021
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	11/19/2020	01/08/2021	03/22/2021
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	03/08/2021	03/11/2021	05/11/2021
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	02/03/2021	03/03/2021	04/05/2021
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	01/22/2021	02/18/2021	05/11/2021
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2017	06/22/2020	11/20/2020
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/23/2021	03/25/2021	06/17/2021
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	12/31/2019	01/20/2021	04/08/2021
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	12/31/2020	01/20/2021	04/08/2021
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	03/22/2021	03/23/2021	06/10/2021
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	05/01/2019	05/14/2019	07/17/2019
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	03/02/2021	03/03/2021	05/19/2021
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	02/23/2021	02/25/2021	05/19/2021
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	02/26/2021	03/02/2021	05/19/2021
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	03/01/2021	03/04/2021	05/20/2021
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2018	06/16/2020	08/28/2020
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	12/31/2020	01/20/2021	04/09/2021
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	02/08/2021	02/12/2021	05/05/2021
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	11/23/2020	11/23/2020	02/08/2021
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2019	04/15/2020	07/02/2020
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	02/16/2021	02/17/2021	05/10/2021
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	04/05/2021	04/06/2021	06/23/2021
CA	ICE	ICE	Department of Toxic Subsances Control	02/16/2021	02/17/2021	05/07/2021
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Qualilty Control Board	03/08/2021	03/09/2021	03/31/2021
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	03/01/2021	03/03/2021	05/20/2021
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/31/2021
CA	MINES	Mines Site Location Listing	Department of Conservation	03/08/2021	03/09/2021	03/30/2021
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	01/29/2021	03/03/2021	05/20/2021
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	02/08/2021	02/09/2021	05/04/2021
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	03/02/2021	03/03/2021	05/20/2021
CA	PROC	Certified Processors Database	Department of Conservation	03/09/2021	03/09/2021	03/31/2021
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	03/12/2021	03/16/2021	06/01/2021
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	03/08/2021	03/09/2021	03/31/2021
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	11/19/2019	01/07/2020	03/09/2020
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	01/20/2021	01/20/2021	04/08/2021
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
CA	HWTS	Hazardous Waste Tracking System	Department of Toxic Substances Control	04/08/2021	04/09/2021	04/20/2021
CA	OTHER OIL GAS	Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	01/20/2021	01/20/2021	04/08/2021
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	03/08/2021	03/09/2021	03/30/2021
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	01/20/2021	01/20/2021	04/08/2021
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	03/09/2021	03/09/2021	03/31/2021
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	02/22/2021	03/30/2021	06/17/2021
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/17/2021	02/17/2021	03/22/2021
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	11/03/2020	11/17/2020	02/09/2021
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	02/24/2021	02/24/2021	05/14/2021
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	04/04/2021	04/06/2021	06/25/2021
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	11/30/2020	12/01/2020	02/12/2021
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2018	07/02/2020	09/17/2020
HISTORICAL USE RECORDS						
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
COUNTY RECORDS						
CA	CS ALAMEDA	Contaminated Sites	Alameda County Environmental Health Services	01/09/2019	01/11/2019	03/05/2019
CA	UST ALAMEDA	Underground Tanks	Alameda County Environmental Health Services	03/17/2021	03/18/2021	03/25/2021
CA	CUPA AMADOR	CUPA Facility List	Amador County Environmental Health	02/02/2021	02/04/2021	04/23/2021
CA	CUPA BUTTE	CUPA Facility Listing	Public Health Department	04/21/2017	04/25/2017	08/09/2017
CA	CUPA CALVERAS	CUPA Facility Listing	Calveras County Environmental Health	12/15/2020	12/16/2020	12/24/2020
CA	CUPA COLUSA	CUPA Facility List	Health & Human Services	04/06/2020	04/23/2020	07/10/2020
CA	SL CONTRA COSTA	Site List	Contra Costa Health Services Department	01/25/2021	01/26/2021	04/16/2021
CA	CUPA DEL NORTE	CUPA Facility List	Del Norte County Environmental Health Divisio	12/17/2020	01/28/2021	04/16/2021
CA	CUPA EL DORADO	CUPA Facility List	El Dorado County Environmental Management Dep	02/09/2021	02/11/2021	05/05/2021
CA	CUPA FRESNO	CUPA Resources List	Dept. of Community Health	01/14/2021	01/15/2021	04/05/2021
CA	CUPA GLENN	CUPA Facility List	Glenn County Air Pollution Control District	01/22/2018	01/24/2018	03/14/2018
CA	CUPA HUMBOLDT	CUPA Facility List	Humboldt County Environmental Health	05/17/2021	05/18/2021	05/20/2021
CA	CUPA IMPERIAL	CUPA Facility List	San Diego Border Field Office	01/19/2021	01/20/2021	04/08/2021
CA	CUPA INYO	CUPA Facility List	Inyo County Environmental Health Services	04/02/2018	04/03/2018	06/14/2018
CA	CUPA KERN	CUPA Facility List	Kern County Public Health	10/29/2020	10/30/2020	01/15/2021
CA	UST KERN	Underground Storage Tank Sites & Tank Listing	Kern County Environment Health Services Depar	01/19/2021	01/21/2021	01/28/2021
CA	CUPA KINGS	CUPA Facility List	Kings County Department of Public Health	12/03/2020	01/26/2021	04/14/2021
CA	CUPA LAKE	CUPA Facility List	Lake County Environmental Health	02/10/2021	02/12/2021	03/11/2021
CA	CUPA LASSEN	CUPA Facility List	Lassen County Environmental Health	07/31/2020	08/21/2020	11/09/2020
CA	AOCONCERN	Key Areas of Concerns in Los Angeles County		03/30/2009	03/31/2009	10/23/2009
CA	HMS LOS ANGELES	HMS: Street Number List	Department of Public Works	04/08/2021	04/13/2021	06/28/2021
CA	LF LOS ANGELES	List of Solid Waste Facilities	La County Department of Public Works	04/12/2021	04/13/2021	06/28/2021
CA	LF LOS ANGELES CITY	City of Los Angeles Landfills	Engineering & Construction Division	01/01/2021	02/18/2021	05/10/2021
CA	LOS ANGELES AST	Active & Inactive AST Inventory	Los Angeles Fire Department	06/01/2019	06/25/2019	08/22/2019
CA	LOS ANGELES CO LF METHANE	Methane Producing Landfills	Los Angeles County Department of Public Works	02/04/2021	04/16/2021	04/21/2021
CA	LOS ANGELES HM	Active & Inactive Hazardous Materials Inventory	Los Angeles Fire Department	04/19/2021	06/17/2021	06/28/2021
CA	LOS ANGELES UST	Active & Inactive UST Inventory	Los Angeles Fire Department	06/01/2019	06/25/2019	08/22/2019
CA	SITE MIT LOS ANGELES	Site Mitigation List	Community Health Services	10/19/2020	01/12/2021	03/26/2021
CA	UST EL SEGUNDO	City of El Segundo Underground Storage Tank	City of El Segundo Fire Department	01/21/2017	04/19/2017	05/10/2017
CA	UST LONG BEACH	City of Long Beach Underground Storage Tank	City of Long Beach Fire Department	04/22/2019	04/23/2019	06/27/2019
CA	UST TORRANCE	City of Torrance Underground Storage Tank	City of Torrance Fire Department	09/11/2020	10/07/2020	12/23/2020
CA	CUPA MADERA	CUPA Facility List	Madera County Environmental Health	08/10/2020	08/12/2020	10/23/2020
CA	UST MARIN	Underground Storage Tank Sites	Public Works Department Waste Management	09/26/2018	10/04/2018	11/02/2018
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	03/24/2021	04/07/2021	06/24/2021
CA	CUPA MERCED	CUPA Facility List	Merced County Environmental Health	02/04/2021	02/09/2021	02/18/2021
CA	CUPA MONO	CUPA Facility List	Mono County Health Department	02/22/2021	03/02/2021	05/19/2021
CA	CUPA MONTEREY	CUPA Facility Listing	Monterey County Health Department	06/23/2021	06/23/2021	06/24/2021
CA	LUST NAPA	Sites With Reported Contamination	Napa County Department of Environmental Manag	01/09/2017	01/11/2017	03/02/2017
CA	UST NAPA	Closed and Operating Underground Storage Tank Sites	Napa County Department of Environmental Manag	09/05/2019	09/09/2019	10/31/2019
CA	CUPA NEVADA	CUPA Facility List	Community Development Agency	02/03/2021	02/04/2021	04/23/2021
CA	IND_SITE ORANGE	List of Industrial Site Cleanups	Health Care Agency	02/01/2021	02/04/2021	04/23/2021
CA	LUST ORANGE	List of Underground Storage Tank Cleanups	Health Care Agency	03/01/2021	05/03/2021	05/12/2021
CA	UST ORANGE	List of Underground Storage Tank Facilities	Health Care Agency	02/01/2021	02/02/2021	04/20/2021
CA	MS PLACER	Master List of Facilities	Placer County Health and Human Services	05/25/2021	05/26/2021	06/01/2021
CA	CUPA PLUMAS	CUPA Facility List	Plumas County Environmental Health	03/31/2019	04/23/2019	06/26/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	LUST RIVERSIDE	Listing of Underground Tank Cleanup Sites	Department of Environmental Health	01/13/2021	01/14/2021	03/10/2021
CA	UST RIVERSIDE	Underground Storage Tank Tank List	Department of Environmental Health	01/13/2021	01/14/2021	03/10/2021
CA	CS SACRAMENTO	Toxic Site Clean-Up List	Sacramento County Environmental Management	03/30/2021	04/01/2021	06/23/2021
CA	ML SACRAMENTO	Master Hazardous Materials Facility List	Sacramento County Environmental Management	03/30/2021	04/01/2021	06/25/2021
CA	CUPA SAN BENITO	CUPA Facility List	San Benito County Environmental Health	04/28/2021	04/29/2021	05/03/2021
CA	PERMITS SAN BERNARDINO	Hazardous Material Permits	San Bernardino County Fire Department Hazardo	05/19/2021	05/19/2021	06/07/2021
CA	HMMD SAN DIEGO	Hazardous Materials Management Division Database	Hazardous Materials Management Division	03/02/2021	03/03/2021	05/21/2021
CA	LF SAN DIEGO	Solid Waste Facilities	Department of Health Services	10/01/2020	11/23/2020	02/08/2021
CA	SAN DIEGO CO LOP	Local Oversight Program Listing	Department of Environmental Health	07/14/2020	07/16/2020	09/29/2020
CA	SAN DIEGO CO SAM	Environmental Case Listing	San Diego County Department of Environmental	03/23/2010	06/15/2010	07/09/2010
CA	CUPA SAN FRANCISCO CO	CUPA Facility Listing	San Francisco County Department of Environmen	02/11/2021	02/11/2021	05/05/2021
CA	LUST SAN FRANCISCO	Local Oversite Facilities	Department Of Public Health San Francisco Cou	09/19/2008	09/19/2008	09/29/2008
CA	UST SAN FRANCISCO	Underground Storage Tank Information	Department of Public Health	02/11/2021	02/11/2021	05/05/2021
CA	UST SAN JOAQUIN	San Joaquin Co. UST	Environmental Health Department	06/22/2018	06/26/2018	07/11/2018
CA	CUPA SAN LUIS OBISPO	CUPA Facility List	San Luis Obispo County Public Health Departme	05/07/2021	05/11/2021	05/14/2021
CA	BI SAN MATEO	Business Inventory	San Mateo County Environmental Health Service	02/20/2020	02/20/2020	04/24/2020
CA	LUST SAN MATEO	Fuel Leak List	San Mateo County Environmental Health Service	03/29/2019	03/29/2019	05/29/2019
CA	CUPA SANTA BARBARA	CUPA Facility Listing	Santa Barbara County Public Health Department	09/08/2011	09/09/2011	10/07/2011
CA	CUPA SANTA CLARA	Cupa Facility List	Department of Environmental Health	02/24/2021	02/26/2021	05/19/2021
CA	HIST LUST SANTA CLARA	HIST LUST - Fuel Leak Site Activity Report	Santa Clara Valley Water District	03/29/2005	03/30/2005	04/21/2005
CA	LUST SANTA CLARA	LOP Listing	Department of Environmental Health	03/03/2014	03/05/2014	03/18/2014
CA	SAN JOSE HAZMAT	Hazardous Material Facilities	City of San Jose Fire Department	11/03/2020	11/05/2020	01/26/2021
CA	CUPA SANTA CRUZ	CUPA Facility List	Santa Cruz County Environmental Health	01/21/2017	02/22/2017	05/23/2017
CA	CUPA SHASTA	CUPA Facility List	Shasta County Department of Resource Manageme	06/15/2017	06/19/2017	08/09/2017
CA	LUST SOLANO	Leaking Underground Storage Tanks	Solano County Department of Environmental Man	06/04/2019	06/06/2019	08/13/2019
CA	UST SOLANO	Underground Storage Tanks	Solano County Department of Environmental Man	03/23/2021	03/25/2021	06/10/2021
CA	CUPA SONOMA	Cupa Facility List	County of Sonoma Fire & Emergency Services De	12/15/2020	12/16/2020	12/23/2020
CA	LUST SONOMA	Leaking Underground Storage Tank Sites	Department of Health Services	04/01/2021	04/01/2021	06/23/2021
CA	CUPA STANISLAUS	CUPA Facility List	Stanislaus County Department of Ennvironmenta	02/09/2021	02/11/2021	05/05/2021
CA	UST SUTTER	Underground Storage Tanks	Sutter County Environmental Health Services	03/01/2021	03/02/2021	05/19/2021
CA	CUPA TEHAMA	CUPA Facility List	Tehama County Department of Environmental Hea	01/13/2021	01/14/2021	04/06/2021
CA	CUPA TRINITY	CUPA Facility List	Department of Toxic Substances Control	01/19/2021	01/20/2021	04/08/2021
CA	CUPA TULARE	CUPA Facility List	Tulare County Environmental Health Services D	02/02/2021	02/04/2021	04/23/2021
CA	CUPA TUOLUMNE	CUPA Facility List	Divison of Environmental Health	04/23/2018	04/25/2018	06/25/2018
CA	BWT VENTURA	Business Plan, Hazardous Waste Producers, and Operating Unde	Ventura County Environmental Health Division	12/28/2020	01/29/2021	04/22/2021
CA	LF VENTURA	Inventory of Illegal Abandoned and Inactive Sites	Environmental Health Division	12/01/2011	12/01/2011	01/19/2012
CA	LUST VENTURA	Listing of Underground Tank Cleanup Sites	Environmental Health Division	05/29/2008	06/24/2008	07/31/2008
CA	MED WASTE VENTURA	Medical Waste Program List	Ventura County Resource Management Agency	03/29/2021	04/21/2021	04/23/2021
CA	UST VENTURA	Underground Tank Closed Sites List	Environmental Health Division	03/01/2021	03/09/2021	03/31/2021
CA	UST YOLO	Underground Storage Tank Comprehensive Facility Report	Yolo County Department of Health	03/26/2021	04/01/2021	06/23/2021
CA	CUPA YUBA	CUPA Facility List	Yuba County Environmental Health Department	04/21/2021	04/22/2021	05/12/2021

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

STREET AND ADDRESS INFORMATION

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APPENDIX E

ENVIRONMENTAL DATABASE REPORT

GEOTEK

APNs 166-280-60, -61 and -18
S Melrose Drive/Matagual Drive
Vista, CA 92081

Inquiry Number: 6558122.2s
June 29, 2021

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

S MELROSE DRIVE/MATAGUAL DRIVE
VISTA, CA 92081

COORDINATES

Latitude (North):	33.1873380 - 33° 11' 14.41''
Longitude (West):	117.2530000 - 117° 15' 10.80''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	476415.3
UTM Y (Meters):	3671892.2
Elevation:	352 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641318 SAN LUIS REY, CA
Version Date:	2012
East Map:	5641320 SAN MARCOS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
S MELROSE DRIVE/MATAGUAL DRIVE
VISTA, CA 92081

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	MICHAEL C MAKSIM DDS	630 S MELROSE DR STE	RCRA NonGen / NLR	Higher	147, 0.028, South
A2	CVS PHARMACY # 6368	635 SOUTH MELROSE DR	RCRA-LQG	Lower	249, 0.047, WSW
A3	CVS PHARMACY #6368	635 S MELROSE DR	San Diego Co. HMMD, CERS HAZ WASTE, CERS	Lower	249, 0.047, WSW
B4	DRY CLEANING STATION	485 S MELROSE DR	EDR Hist Cleaner	Lower	342, 0.065, NNW
B5	VISTA DENTAL GROUP	435 S MELROSE DR	RCRA NonGen / NLR	Higher	600, 0.114, NW
B6	VISTA DENTAL GROUP	435 S MELROSE DR STE	CERS HAZ WASTE, CERS	Higher	600, 0.114, NW
7	ENRIQUE MARROQUINE	1104 COLLINSWOOD LAN	RCRA NonGen / NLR	Higher	620, 0.117, ENE
8	LAHIRU RATH	1104 MELROSE WAY	RCRA NonGen / NLR	Higher	943, 0.179, SSW
9	SLIVNIK, AUGUST & MI	671 MATAGUAL DR.	RCRA NonGen / NLR	Lower	1094, 0.207, NE
C10	VISTA REGIONAL CENTE	325 S MELROSE DR	San Diego Co. HMMD, HIST UST, NPDES, CIWQS, CERS	Lower	1293, 0.245, NNW
C11	JUDICIAL COUNCIL OF	325 SOUTH MELROSE DR	RCRA NonGen / NLR	Lower	1293, 0.245, NNW
C12	325 SO MELROSE DR	325 S MELROSE DR	ENVIROSTOR, VCP, CIWQS	Lower	1293, 0.245, NNW
C13	VISTA REGIONAL CENTE	325 SOUTH MELROSE DR	LUST, CPS-SLIC, HIST UST, SAN DIEGO CO LOP	Lower	1293, 0.245, NNW
C14	GEN SERV FACILITIES	325 S MELROSE DR	SAN DIEGO CO. SAM, UST, Cortese, CERS	Lower	1293, 0.245, NNW
C15	SD COUNTY SHERIFFS D	325 S MELROSE AVE	RCRA NonGen / NLR	Lower	1293, 0.245, NNW
C16	NORTH COUNTY TRANSIT	325 SOUTH MELROSE DR	RCRA NonGen / NLR	Lower	1293, 0.245, NNW
C17	JUDICIAL COUNCIL OF	325 SOUTH MELROSE DR	RCRA NonGen / NLR	Lower	1293, 0.245, NNW
C18	SD CNTY VISTA DET FA	325 S MELROSE DR	CPS-SLIC, San Diego Co. HMMD, CERS	Lower	1293, 0.245, NNW
19	BREEZE HILL RANCH CO	333 S MELROSE DR	LUST, SAN DIEGO CO. SAM, San Diego Co. HMMD,...	Lower	1557, 0.295, North
20	FOOD 4 LESS #300	500 HACIENDA DR	SWRCY, San Diego Co. HMMD, HAZNET, HWTS	Lower	1780, 0.337, NNE
21	NORTH COUNTY REGIONA	325 MELROSE	HIST CORTESE	Lower	1899, 0.360, NNW
D22	MELROSE VALERO	210 S MELROSE DR	SAN DIEGO CO. SAM, UST, SWEEPS UST, Cortese	Lower	2002, 0.379, North
D23	MELROSE VALERO	210 S MELROSE DR	LUST, San Diego Co. HMMD, HIST UST, CERS	Lower	2002, 0.379, North
24	ALLISON X-RAY COMPAN	950 S MELROSE DR	San Diego Co. HMMD, RCRA NonGen / NLR, FINDS,...	Higher	2526, 0.478, South
25	COPPER/IRON SCHOOL	COPPER DRIVE/IRON DR	ENVIROSTOR, SCH, CERS	Lower	4169, 0.790, NNW

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-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS Institutional Controls Sites List

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

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

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
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
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
San Diego Co. HMMD Hazardous Materials Management Division Database

Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
CERS TANKS	California Environmental Reporting System (CERS) Tanks
CA FID UST	Facility Inventory 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

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

EXECUTIVE SUMMARY

US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
ECHO ---- Enforcement & Compliance History Information
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan
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
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
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
SAN DIEGO CO LOP ---- Local Oversight Program Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
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)
MINES MRDS ---- Mineral Resources Data System
HWTS ---- Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

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-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY # 6368 EPA ID:: CAR000233734	635 SOUTH MELROSE DR	WSW 0 - 1/8 (0.047 mi.)	A2	11

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 01/25/2021 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
325 SO MELROSE DR	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C12***	***71***

Facility Id: 60002728
Status: Active

COPPER/IRON SCHOOL ***COPPER DRIVE/IRON DR*** ***NNW 1/2 - 1 (0.790 mi.)*** ***25*** ***192***
Facility Id: 60000012
Status: No Further Action

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 3 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VISTA REGIONAL CENTE	***325 SOUTH MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C13***	***74***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0607302386				
BREEZE HILL RANCH CO	***333 S MELROSE DR***	***N 1/4 - 1/2 (0.295 mi.)***	***19***	***106***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0608184748				
MELROSE VALERO	***210 S MELROSE DR***	***N 1/4 - 1/2 (0.379 mi.)***	***D23***	***158***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Status: Remedial action (cleanup) Underway Global Id: T0607300068 Case Number: 9UT1055				

SAN DIEGO CO. SAM: 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.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 3 SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GEN SERV FACILITIES	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C14***	***77***
Case Number: H14739-001 Case Number: H14739-002 Facility Status: Closed Case				
BREEZE HILL RANCH CO	***333 S MELROSE DR***	***N 1/4 - 1/2 (0.295 mi.)***	***19***	***106***
Case Number: H23549-001 Facility Status: Preliminary Assessment				
MELROSE VALERO	***210 S MELROSE DR***	***N 1/4 - 1/2 (0.379 mi.)***	***D22***	***155***
Case Number: H05275-001				

Facility Status: Remedial Investigation

CPS-SLIC: 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.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VISTA REGIONAL CENTE	***325 SOUTH MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C13***	***74***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Completed - Case Closed Global Id: T0608107853				
SD CNTY VISTA DET FA	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C18***	***86***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Completed - Case Closed Global Id: T10000011511				

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 is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GEN SERV FACILITIES	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C14***	***77***
Database: UST, Date of Government Version: 03/08/2021 Facility Id: 37-000-114739 Facility Id: 37-000-129820 Facility Id: H29820				

State and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 01/25/2021 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
325 SO MELROSE DR	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C12***	***71***

Status: Active
Facility Id: 60002728

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/09/2021 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOOD 4 LESS #300 Cert Id: RC295708.001	***500 HACIENDA DR***	***NNE 1/4 - 1/2 (0.337 mi.)***	***20***	***113***

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 01/20/2021 has revealed that there are 2 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VISTA DENTAL GROUP	***435 S MELROSE DR STE***	***NW 0 - 1/8 (0.114 mi.)***	***B6***	***43***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #6368	***635 S MELROSE DR***	***WSW 0 - 1/8 (0.047 mi.)***	***A3***	***19***

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VISTA REGIONAL CENTE Facility Id: 00000044129	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C10***	***52***
VISTA REGIONAL CENTE	***325 SOUTH MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C13***	***74***

Other Ascertainable Records

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 9 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MICHAEL C MAKSIM DDS EPA ID:: CAL000172637	630 S MELROSE DR STE	S 0 - 1/8 (0.028 mi.)	1	9
VISTA DENTAL GROUP EPA ID:: CAL000270310	435 S MELROSE DR	NW 0 - 1/8 (0.114 mi.)	B5	40
ENRIQUE MARROQUINE	1104 COLLINSWOOD LAN	ENE 0 - 1/8 (0.117 mi.)	7	45
LAHIRU RATH	1104 MELROSE WAY	SSW 1/8 - 1/4 (0.179 mi.)	8	47

Lower Elevation	Address	Direction / Distance	Map ID	Page
SLIVNIK, AUGUST & MI EPA ID:: CAC002988882	671 MATAGUAL DR.	NE 1/8 - 1/4 (0.207 mi.)	9	50
JUDICIAL COUNCIL OF	325 SOUTH MELROSE DR	NNW 1/8 - 1/4 (0.245 mi.)	C11	69
SD COUNTY SHERIFFS D EPA ID:: CAL000439252	325 S MELROSE AVE	NNW 1/8 - 1/4 (0.245 mi.)	C15	79
NORTH COUNTY TRANSIT	325 SOUTH MELROSE DR	NNW 1/8 - 1/4 (0.245 mi.)	C16	81
JUDICIAL COUNCIL OF EPA ID:: CAC003002096	325 SOUTH MELROSE DR	NNW 1/8 - 1/4 (0.245 mi.)	C17	84

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 (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/22/2021 has revealed that there are 3 Cortese sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GEN SERV FACILITIES Cleanup Status: COMPLETED - CASE CLOSED	***325 S MELROSE DR***	***NNW 1/8 - 1/4 (0.245 mi.)***	***C14***	***77***
BREEZE HILL RANCH CO Cleanup Status: COMPLETED - CASE CLOSED	***333 S MELROSE DR***	***N 1/4 - 1/2 (0.295 mi.)***	***19***	***106***
MELROSE VALERO Cleanup Status: COMPLETED - CASE CLOSED	***210 S MELROSE DR***	***N 1/4 - 1/2 (0.379 mi.)***	***D22***	***155***

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 is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTH COUNTY REGIONA Reg Id: 9UT3618	325 MELROSE	NNW 1/4 - 1/2 (0.360 mi.)	21	155

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/16/2021 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLISON X-RAY COMPAN EPA ID: CAD982512386 Cleanup Status: CLOSED	***950 S MELROSE DR***	***S 1/4 - 1/2 (0.478 mi.)***	***24***	***180***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: 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.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DRY CLEANING STATION	485 S MELROSE DR	NNW 0 - 1/8 (0.065 mi.)	B4	40

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
EXXON SERVICE STATION 7-3270	LUST

OVERVIEW MAP - 6558122.2S

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

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

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:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
LAT/LONG:	33.187338 / 117.253	INQUIRY #:	6558122.2s
		DATE:	June 29, 2021 7:05 pm

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DETAIL MAP - 6558122.2S

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

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

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:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
LAT/LONG:	33.187338 / 117.253	INQUIRY #:	6558122.2s
		DATE:	June 29, 2021 7:06 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	1.000		0	0	0	0	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		1	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	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 CONTROLS	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	1	0	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	2	NR	NR	3

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
SAN DIEGO CO. SAM	0.500		0	1	2	NR	NR	3
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	2	0	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	1	0	NR	NR	1
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	1	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	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
San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		2	0	NR	NR	NR	2
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	2	NR	NR	NR	2
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	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
LIENS 2	0.001		0	NR	NR	NR	NR	0
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		3	6	NR	NR	NR	9
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	1.000		0	0	0	0	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	0.250		0	0	NR	NR	NR	0
FINDS	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
ECHO	0.001		0	NR	NR	NR	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	1	2	NR	NR	3
CUPA Listings	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
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	1	NR	NR	1
HWP	1.000		0	0	1	0	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	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
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
SAN DIEGO CO LOP	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
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
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	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		1	NR	NR	NR	NR	1
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	7	16	9	1	0	33

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
South
< 1/8
0.028 mi.
147 ft.

MICHAEL C MAKSIM DDS
630 S MELROSE DR STE B
VISTA, CA 92081

RCRA NonGen / NLR

1024796099
CAL000172637

Relative:
Higher

Actual:
367 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		1999-03-29 00:00:00.0
Handler Name:	MICHAEL C MAKSIM DDS	
Handler Address:		630 S MELROSE DR STE B
Handler City,State,Zip:		VISTA, CA 92081-6626
EPA ID:		CAL000172637
Contact Name:		JOYCE VISETH
Contact Address:		630 S MELROSE DR STE B
Contact City,State,Zip:		VISTA, CA 92081
Contact Telephone:		760-726-5703
Contact Fax:		760-726-5704
Contact Email:		MICHAEL.MAKSIM@SBCGLOBAL.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		630 S MELROSE DR STE B
Mailing City,State,Zip:		VISTA, CA 92081-6626
Owner Name:		MICHAEL C MAKSIM
Owner Type:		Other
Operator Name:		JOYCE VISETH
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

MICHAEL C MAKSIM DDS (Continued) **1024796099**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:43:50.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOYCE VISETH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	630 S MELROSE DR STE B
Owner/Operator City,State,Zip:	VISTA, CA 92081
Owner/Operator Telephone:	760-726-5703
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MICHAEL C MAKSIM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	630 S MELROSE DR STE B
Owner/Operator City,State,Zip:	VISTA, CA 92081-6626
Owner/Operator Telephone:	760-726-5703
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MICHAEL C MAKSIM DDS (Continued) **1024796099**

Historic Generators:
Receive Date: 1999-03-29 00:00:00.0
Handler Name: MICHAEL C MAKSIM DDS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A2 **CVS PHARMACY # 6368** **RCRA-LQG** **1015753042**
WSW **635 SOUTH MELROSE DRIVE** **CAR000233734**
< 1/8 **VISTA, CA 92081**
0.047 mi.
249 ft. **Site 1 of 2 in cluster A**

Relative: RCRA-LQG:
Lower
Date Form Received by Agency: 2020-02-16 00:00:00.0
Actual: Handler Name: CVS PHARMACY # 6368
351 ft. Handler Address: 635 SOUTH MELROSE DRIVE
Handler City,State,Zip: VISTA, CA 92081-0000
EPA ID: CAR000233734
Contact Name: NICOLE WILKINSON
Contact Address: CVS DRIVE
Contact City,State,Zip: WOONSOCKET, RI 02895
Contact Telephone: 401-770-7132
Contact Fax: Not reported
Contact Email: NICOLE.WILKINSON@CVSHEALTH.COM
Contact Title: DIRECTOR CORPORATE ENVIRONMENTAL
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: CVS DRIVE MC2340
Mailing City,State,Zip: WOONSOCKET, RI 02895
Owner Name: BREEZY HILL PROMENADE

CVS PHARMACY # 6368 (Continued) **1015753042**

Owner Type:	Private
Operator Name:	LONGS DRUG STORES CALIFORNIA, L.L.C
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-08-26 19:25:50.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

CVS PHARMACY # 6368 (Continued) **1015753042**

Sub-Part P Indicator: No

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D024
Waste Description: M-CRESOL

CVS PHARMACY # 6368 (Continued) **1015753042**

Waste Code:	D025
Waste Description:	P-CRESOL
Waste Code:	D026
Waste Description:	CRESOL
Waste Code:	D027
Waste Description:	1,4-DICHLOROBENZENE
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	P001
Waste Description:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Waste Code:	P012
Waste Description:	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE
Waste Code:	P042
Waste Description:	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE
Waste Code:	P075
Waste Description:	NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS
Waste Code:	P081
Waste Description:	1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)
Waste Code:	P188
Waste Description:	BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE
Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U010
Waste Description:	AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C
Waste Code:	U031
Waste Description:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
Waste Code:	U034
Waste Description:	ACETALDEHYDE, TRICHLORO- (OR) CHLORAL
Waste Code:	U035
Waste Description:	BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

CVS PHARMACY # 6368 (Continued) **1015753042**

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U059
Waste Description: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U151
Waste Description: MERCURY

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U200
Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U204

CVS PHARMACY # 6368 (Continued) **1015753042**

Waste Description: SELENIOUS ACID (OR) SELENIUM DIOXIDE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code: U206
Waste Description: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U279
Waste Description: U279

Waste Code: U411
Waste Description: U411

Handler - Owner Operator:

Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA LLC
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BREEZY HILL PROMENADE
Legal Status: Private
Date Became Current: 2006-05-17 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 5330 CARROLL CANYON RD, STE 200
Owner/Operator City,State,Zip: SAN DIEGO, CA 92121
Owner/Operator Telephone: 858-373-1234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: NICOLE.WILKINSON@CVSHEALTH.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA, L.L.C
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DRIVE
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-765-1500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: CORPORATEENVIRONMENTALTEAM@CVSHEALTH.COM

Owner/Operator Indicator: Owner

CVS PHARMACY # 6368 (Continued) **1015753042**

Owner/Operator Name: BREEZY HILL PROMENADE
Legal Status: Private
Date Became Current: 2006-05-17 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 5330 CARROLL CANYON RD, STE 200
Owner/Operator City,State,Zip: SAN DIEGO, CA 92121
Owner/Operator Telephone: 858-373-1234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: NICOLE.WILKINSON@CVSHEALTH.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: BREEZY HILL PROMENADE
Legal Status: Private
Date Became Current: 2006-05-17 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 5330 CARROLL CANYON RD
Owner/Operator City,State,Zip: SAN DIEGO, CA 92121
Owner/Operator Telephone: 858-373-1234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUGS STORES CALIFORNIA LLC
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BREEZY HILL PROMENADE
Legal Status: Private
Date Became Current: 2006-05-17 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 5330 CARROLL CANYON ROAD SUITE 200
Owner/Operator City,State,Zip: SAN DIEGO, CA 92121
Owner/Operator Telephone: 858-373-1234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA, L.L.C
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DRIVE
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-765-1500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

CVS PHARMACY # 6368 (Continued) **1015753042**

Owner/Operator Email: CORPORATEENVIRONMENTALTEAM@CVSHEALTH.COM

Historic Generators:

Receive Date: 2014-03-25 00:00:00.0
Handler Name: CVS PHARMACY #6368
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-03-01 00:00:00.0
Handler Name: CVS PHARMACY # 6368
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-16 00:00:00.0
Handler Name: CVS PHARMACY # 6368
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2013-01-03 00:00:00.0
Handler Name: CVS PHARMACY NO 6368
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

CVS PHARMACY # 6368 (Continued) **1015753042**

NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

NAICS Code: 446110
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A3 WSW < 1/8 0.047 mi. 249 ft. **CVS PHARMACY #6368** **San Diego Co. HMMD** **S110497790**
635 S MELROSE DR **CERS HAZ WASTE** **N/A**
VISTA, CA 92081 **CERS**

Site 2 of 2 in cluster A

Relative: Lower
Actual: 351 ft.

HMMD SAN DIEGO:
Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: Not reported
Business Type: Not reported
EPA Id Number: CAR000233734
APN: Not reported
Last HMMD Inspection: Not reported
Facility Telephone: (760) 643-3904
Permit Status: Permit Renewed
Permit Expiration: Not reported
Date Last Updated: 05/28/2020
Facility Owner: Not reported
Facility Mailing Address: One CVS Drive - MC 1160, Woonsocket, RI 02895
Facility Mailing City: Not reported
Facility Mailing State: Not reported
Facility Mailing Zip: Not reported
UST Owner: N
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: N
Generate Medical Waste: Not reported

Waste and Materials:
Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194037
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Common Name: RCRA Acute Pharmaceutical Waste
Case Number: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HWAST-0194038
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-04-29T02:38:05.000
Chemical Name:	Waste State-Regulated Pharmaceuticals, Liquids
Common Name:	Non-RCRA Waste Pharmaceuticals, Liquids
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HWAST-0194041
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-04-29T02:38:05.000
Chemical Name:	Waste Aerosols, Flammable
Common Name:	Waste Aerosols, Flammable
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HWAST-0194042
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-04-29T02:38:05.000
Chemical Name:	Waste Corrosive Liquids, N.O.S. (Acidic)
Common Name:	Waste Corrosive Liquids, N.O.S. (Acidic)
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HWAST-0194043
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-04-29T02:38:05.000
Chemical Name:	Waste Corrosive Liquids, N.O.S. (Basic)
Common Name:	Waste Corrosive Liquids, N.O.S. (Basic)
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HWAST-0194044
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-04-29T02:38:05.000
Chemical Name:	Waste Flammable Liquids, N.O.S.
Common Name:	Waste Flammable Liquids, N.O.S.
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed

CVS PHARMACY #6368 (Continued) **S110497790**

Active Permit: Y
Child Record Id: DEH2019-HWAST-0194045
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Compressed Gas, Flammable, N.O.S.
Common Name: Waste Compressed Gas, Flammable, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194046
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Oxidizing Liquid, N.O.S.
Common Name: Waste Oxidizing Liquid, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194047
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Consumer Product, State Regulated Liquids
Common Name: Waste Consumer Product, State Regulated Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194048
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Consumer Product, State Regulated Solids
Common Name: Waste Consumer Product, State Regulated Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121864
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: RCRA Pharmaceutical Waste, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121865

CVS PHARMACY #6368 (Continued) **S110497790**

Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S.
Common Name: RCRA Pharmaceutical Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121866
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Common Name: RCRA Acute Pharmaceutical Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121867
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste State-Regulated Pharmaceuticals, Liquids
Common Name: Non-RCRA Waste Pharmaceuticals, Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121868
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste State-Regulated Pharmaceuticals, Solids
Common Name: Non-RCRA Waste Pharmaceuticals, Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121869
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Infectious waste, sharps
Common Name: Sharps Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121870
Trade Secret: N
Hazardous Material Type: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Aerosols, Flammable
Common Name: Waste Aerosols, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121871
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Common Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121872
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Basic)
Common Name: Waste Corrosive Liquids, N.O.S. (Basic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121873
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: Waste Flammable Liquids, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121874
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Compressed Gas, Flammable, N.O.S.
Common Name: Waste Compressed Gas, Flammable, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121875
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Oxidizing Liquid, N.O.S.

CVS PHARMACY #6368 (Continued) **S110497790**

Common Name: Waste Oxidizing Liquid, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121876
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Consumer Product, State Regulated Liquids
Common Name: Waste Consumer Product, State Regulated Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0121877
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:32:52.000
Chemical Name: Waste Consumer Product, State Regulated Solids
Common Name: Waste Consumer Product, State Regulated Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194035
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: RCRA Pharmaceutical Waste, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194036
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S.
Common Name: RCRA Pharmaceutical Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157183
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: RCRA Pharmaceutical Waste, Flammable
Case Number: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0157184
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-05-30T02:32:06.000
Chemical Name:	Waste Toxic Solids, Organic, N.O.S.
Common Name:	RCRA Pharmaceutical Waste
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0157185
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-05-30T02:32:06.000
Chemical Name:	Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Common Name:	RCRA Acute Pharmaceutical Waste
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0157186
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-05-30T02:32:06.000
Chemical Name:	Waste State-Regulated Pharmaceuticals, Liquids
Common Name:	Non-RCRA Waste Pharmaceuticals, Liquids
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0157187
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-05-30T02:32:06.000
Chemical Name:	Waste State-Regulated Pharmaceuticals, Solids
Common Name:	Non-RCRA Waste Pharmaceuticals, Solids
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0157188
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-05-30T02:32:06.000
Chemical Name:	Infectious waste, sharps
Common Name:	Sharps Waste
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed

CVS PHARMACY #6368 (Continued) **S110497790**

Active Permit: Y
Child Record Id: DEH2018-HWAST-0157189
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Aerosols, Flammable
Common Name: Waste Aerosols, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157190
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Common Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157191
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Basic)
Common Name: Waste Corrosive Liquids, N.O.S. (Basic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157192
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: Waste Flammable Liquids, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157193
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Compressed Gas, Flammable, N.O.S.
Common Name: Waste Compressed Gas, Flammable, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157194

CVS PHARMACY #6368 (Continued) **S110497790**

Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Oxidizing Liquid, N.O.S.
Common Name: Waste Oxidizing Liquid, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157195
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Consumer Product, State Regulated Liquids
Common Name: Waste Consumer Product, State Regulated Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0157196
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-05-30T02:32:06.000
Chemical Name: Waste Consumer Product, State Regulated Solids
Common Name: Waste Consumer Product, State Regulated Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194039
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Waste State-Regulated Pharmaceuticals, Solids
Common Name: Non-RCRA Waste Pharmaceuticals, Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0194040
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-04-29T02:38:05.000
Chemical Name: Infectious waste, sharps
Common Name: Sharps Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083850
Trade Secret: N
Hazardous Material Type: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Aerosols, Flammable
Common Name: Waste Aerosols, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083851
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Common Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083852
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Basic)
Common Name: Waste Corrosive Liquids, N.O.S. (Basic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083853
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: Waste Flammable Liquids, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083854
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Compressed Gas, Flammable, N.O.S.
Common Name: Waste Compressed Gas, Flammable, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083855
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Oxidizing Liquid, N.O.S.

CVS PHARMACY #6368 (Continued) **S110497790**

Common Name: Waste Oxidizing Liquid, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083856
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Consumer Product, State Regulated Liquids
Common Name: Waste Consumer Product, State Regulated Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083857
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Consumer Product, State Regulated Solids
Common Name: Waste Consumer Product, State Regulated Solids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083858
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S.
Common Name: Waste Toxic Solids, Organic, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083859
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Common Name: Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HWAST-0083860
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2016-05-14T01:35:06.000
Chemical Name: Infectious waste, sharps
Common Name: Sharps
Case Number: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0235698
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-05-28T01:11:03.000
Chemical Name:	Waste Flammable Liquids, N.O.S.
Common Name:	RCRA Pharmaceutical Waste, Flammable
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0235699
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-05-28T01:11:03.000
Chemical Name:	Waste Toxic Solids, Organic, N.O.S.
Common Name:	RCRA Pharmaceutical Waste
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0235700
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-05-28T01:11:03.000
Chemical Name:	Waste Toxic Solids, Organic, N.O.S. (Acute Toxic Solid)
Common Name:	RCRA Acute Pharmaceutical Waste
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0235701
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-05-28T01:11:03.000
Chemical Name:	Waste State-Regulated Pharmaceuticals, Liquids
Common Name:	Non-RCRA Waste Pharmaceuticals, Liquids
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0235702
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-05-28T01:11:03.000
Chemical Name:	Waste State-Regulated Pharmaceuticals, Solids
Common Name:	Non-RCRA Waste Pharmaceuticals, Solids
Case Number:	Not reported

Record ID:	DEH2010-HUPFP-212789
Permit Status:	Permit Renewed

CVS PHARMACY #6368 (Continued) **S110497790**

Active Permit: Y
Child Record Id: DEH2020-HWAST-0235703
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Infectious waste, sharps
Common Name: Sharps Waste
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235704
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Aerosols, Flammable
Common Name: Waste Aerosols, Flammable
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235705
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Common Name: Waste Corrosive Liquids, N.O.S. (Acidic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235706
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Corrosive Liquids, N.O.S. (Basic)
Common Name: Waste Corrosive Liquids, N.O.S. (Basic)
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235707
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Flammable Liquids, N.O.S.
Common Name: Waste Flammable Liquids, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235708

CVS PHARMACY #6368 (Continued) **S110497790**

Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Compressed Gas, Flammable, N.O.S.
Common Name: Waste Compressed Gas, Flammable, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235709
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Oxidizing Liquid, N.O.S.
Common Name: Waste Oxidizing Liquid, N.O.S.
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235710
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Consumer Product, State Regulated Liquids
Common Name: Waste Consumer Product, State Regulated Liquids
Case Number: Not reported

Record ID: DEH2010-HUPFP-212789
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0235711
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-05-28T01:11:03.000
Chemical Name: Waste Consumer Product, State Regulated Solids
Common Name: Waste Consumer Product, State Regulated Solids
Case Number: Not reported

Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: 212789
Business Type: 6HK42
EPA Id Number: CAL000356700
APN: 166-150-46-00
Last HMMD Inspection: 10/04/2010
Facility Telephone: 760-643-3900
Permit Status: OPEN
Permit Expiration: 05/31/2013
Date Last Updated: 11/02/2012
Facility Owner: GARFIELD BEACH CVS, LLC
Facility Mailing Address: 1 CVS DR, MAIL DROP 23062A
Facility Mailing City: Woonsocket
Facility Mailing State: RI

CVS PHARMACY #6368 (Continued) **S110497790**

Facility Mailing Zip: 02895
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 123 UNSPECIFIED ALKALINE SOL'N
Other Information: WASTE CORROSIVE - BASES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 131 AQUEOUS SOL'N W/REACTIVE ANION
Other Information: WASTE OXIDIZERS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 135 UNSPECIFIED AQUEOUS SOL'N
Other Information: STATE REGULATED TOXIC WASTES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 214 UNSPEC SOLVENT MIXTURE
Other Information: AEROSOLS & FLAMMABLES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 311 PHARMACEUTICAL WASTE
Other Information: RCRA HAZAROUS WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Name: WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information: WASTE CORROSIVE - ACIDIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: MAIL BACK
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0217
Violation: HAZMAT CON. NOT REPACKAGED WI 96 HRS.
Violation Citation: Failed to repackage damaged/deteriorated hazardous material container within 96 hours. 25124(b)(3)(B) & 66262.34(f)
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0407
Violation: EMPLOYEE TRAINING NOT ADEQUATE
Violation Citation: Employee training program for small quantity generator of hazardous waste is inadequate. CFR 262.34(d)(5)(iii)
Activity: ACTIVE

Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: 212789
Business Type: 6HK42

CVS PHARMACY #6368 (Continued) **S110497790**

EPA Id Number:	CAL000356700
APN:	166-150-46-00
Last HMMD Inspection:	10/04/2010
Facility Telephone:	760-643-3900
Permit Status:	OPEN
Permit Expiration:	05/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	GARFIELD BEACH CVS, LLC
Facility Mailing Address:	1 CVS DR, MAIL DROP 23062A
Facility Mailing City:	Woonsocket
Facility Mailing State:	RI
Facility Mailing Zip:	02895
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Y

Inventory Active Permits (not SQG Medical):

Permit Number:	212789
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 123 UNSPECIFIED ALKALINE SOL'N
Other Information:	WASTE CORROSIVE - BASES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212789
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 131 AQUEOUS SOL'N W/REACTIVE ANION
Other Information:	WASTE OXIDIZERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212789
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 135 UNSPECIFIED AQUEOUS SOL'N
Other Information:	STATE REGULATED TOXIC WASTES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212789
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 214 UNSPEC SOLVENT MIXTURE
Other Information:	AEROSOLS & FLAMMABLES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212789

CVS PHARMACY #6368 (Continued) **S110497790**

Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 311 PHARMACEUTICAL WASTE
Other Information: RCRA HAZAROUS WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information: WASTE CORROSIVE - ACIDIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 212789
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: MAIL BACK
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0217
Violation: HAZMAT CON. NOT REPACKAGED WI 96 HRS.
Violation Citation: Failed to repackage damaged/deteriorated hazardous material container within 96 hours. 25124(b)(3)(B) & 66262.34(f)
Activity: ACTIVE

Permit Number: 212789
Update Date: 11/02/2012
Inspection Date: 10/04/2010
Violation Code: 6HV0407

CVS PHARMACY #6368 (Continued) **S110497790**

Violation: EMPLOYEE TRAINING NOT ADEQUATE
Violation Citation: Employee training program for small quantity generator of hazardous waste is inadequate. CFR 262.34(d)(5)(iii)
Activity: ACTIVE

Name: LONGS DRUG STORE
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: 206969
Business Type: 6HK15
EPA Id Number: Not reported
APN: 166-150-46-00
Last HMMD Inspection: 05/25/2006
Facility Telephone: 925-937-1170
Permit Status: INAC
Permit Expiration: 09/30/2009
Date Last Updated: 11/02/2012
Facility Owner: LONGS DRUNG STORES CA, INC
Facility Mailing Address: 141 N CIVIC DR
Facility Mailing City: WALNUT CREEK
Facility Mailing State: CA
Facility Mailing Zip: 94596
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

CERS HAZ WASTE:
Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Site ID: 23077
CERS ID: 10377976
CERS Description: Hazardous Waste Generator

Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Site ID: 23077
CERS ID: 10377976
CERS Description: RCRA LQ HW Generator

CERS:
Name: CVS PHARMACY #6368
Address: 635 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Site ID: 23077
CERS ID: 10377976
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2017

CVS PHARMACY #6368 (Continued) **S110497790**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Calcagno Leonardo Inspection ID:5672625
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-04-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Vue Cher Inspection ID:4110270
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	23077
Facility Name:	CVS Pharmacy #6368
Env Int Type Code:	HWG
Program ID:	10377976
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.186960
Longitude:	-117.254140

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	John Koning, Agent for Longs Drug Stores California, L.L.C.
Entity Title:	Regulatory Business Solutions Spec, Verisk 3E
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:	Longs Drug Stores California, L.L.C.
Entity Title:	Not reported
Affiliation Address:	One CVS Drive
Affiliation City:	Woonsocket
Affiliation State:	RI
Affiliation Country:	United States
Affiliation Zip:	02895
Affiliation Phone:	(401) 765-1500
Affiliation Type Desc:	Environmental Contact
Entity Name:	Verisk 3E, Regulatory Services/CVS
Entity Title:	Not reported
Affiliation Address:	3207 Grey Hawk Court, Suite 200
Affiliation City:	Carlsbad
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92010
Affiliation Phone:	Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Affiliation Type Desc:	Operator
Entity Name:	Longs Drug Stores California, L.L.C.
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:	(401) 765-1500

Affiliation Type Desc:	Property Owner
Entity Name:	Breeze Hill Promenade
Entity Title:	Not reported
Affiliation Address:	5330 Carroll Canyon Rd., Ste. 200
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92121
Affiliation Phone:	(858) 373-1234

Affiliation Type Desc:	Document Preparer
Entity Name:	John Koning, Agent for Longs Drug Stores California, L.L.C.
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:	CVS Health
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:	CUPA District
Entity Name:	San Diego County Env Health
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	CVS Health, Attn: Dianne E. Durand, Licensing, One CVS Drive G MC 1160
Affiliation City:	Woonsocket
Affiliation State:	RI
Affiliation Country:	Not reported

CVS PHARMACY #6368 (Continued) **S110497790**

Affiliation Zip: 02895
Affiliation Phone: Not reported

B4 **DRY CLEANING STATION** **EDR Hist Cleaner** **1019976738**
NNW **485 S MELROSE DR** **N/A**
< 1/8 **VISTA, CA 92081**
0.065 mi.
342 ft. **Site 1 of 3 in cluster B**

Relative: EDR Hist Cleaner
Lower

Actual:
340 ft.

Year:	Name:	Type:
2004	DRY CLEANING STATION	Drycleaning Plants, Except Rugs
2005	DRY CLEANING STATION	Drycleaning Plants, Except Rugs
2006	DRY CLEANING STATION	Drycleaning Plants, Except Rugs
2007	DRY CLEANING STATION	Drycleaning Plants, Except Rugs
2008	DRY CLEANING STATION	Drycleaning Plants, Except Rugs

B5 **VISTA DENTAL GROUP** **RCRA NonGen / NLR** **1024806669**
NW **435 S MELROSE DR** **CAL000270310**
< 1/8 **VISTA, CA 92084**
0.114 mi.
600 ft. **Site 2 of 3 in cluster B**

Relative: RCRA NonGen / NLR:
Higher

Actual:
354 ft.

Date Form Received by Agency:		2003-05-12 00:00:00.0
Handler Name:	VISTA DENTAL GROUP	
Handler Address:		435 S MELROSE DR
Handler City,State,Zip:		VISTA, CA 92084
EPA ID:		CAL000270310
Contact Name:		MAEGAN GERRISH
Contact Address:		435 S MELROSE DR
Contact City,State,Zip:		VISTA, CA 92084
Contact Telephone:		760-758-7580
Contact Fax:		760-758-1995
Contact Email:		RISK@PACDEN.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		17000 RED HILL AVE
Mailing City,State,Zip:		IRVINE, CA 92614
Owner Name:		RODGERS & DO DENTAL CORP
Owner Type:		Other
Operator Name:		MAEGAN GERRISH
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

VISTA DENTAL GROUP (Continued) **1024806669**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:24:59.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RODGERS & DO DENTAL CORP

VISTA DENTAL GROUP (Continued) **1024806669**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	435 S MELROSE DR
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-758-7580
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MAEGAN GERRISH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	435 S MELROSE DR
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-758-7580
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2003-05-12 00:00:00.0
Handler Name: VISTA DENTAL GROUP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	62121
NAICS Description:	OFFICES OF DENTISTS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B6 **VISTA DENTAL GROUP** **CERS HAZ WASTE** **S119095582**
NW **435 S MELROSE DR STE 105** **CERS** **N/A**
< 1/8 **VISTA, CA 92081**
0.114 mi.
600 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
354 ft.

CERS HAZ WASTE:

Name:	VISTA DENTAL GROUP
Address:	435 S MELROSE DR STE 105
City,State,Zip:	VISTA, CA 92081
Site ID:	83702
CERS ID:	10403407
CERS Description:	Hazardous Waste Generator

CERS:

Name:	VISTA DENTAL GROUP
Address:	435 S MELROSE DR STE 105
City,State,Zip:	VISTA, CA 92081
Site ID:	83702
CERS ID:	10403407
CERS Description:	Chemical Storage Facilities

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Allison Winton
Entity Title:	Risk Coordinator
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:	Vista Dental Group
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:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	17000 Red Hill Avenue
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92614
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Rodgers and Do Dental Corporation
Entity Title:	Not reported
Affiliation Address:	435 South Melrose Dr, Ste 105
Affiliation City:	Vista
Affiliation State:	CA

VISTA DENTAL GROUP (Continued) **S119095582**

Affiliation Country:	United States
Affiliation Zip:	92084
Affiliation Phone:	(760) 758-7580
Affiliation Type Desc:	Property Owner
Entity Name:	Rodgers and Do Dental Corporation
Entity Title:	Not reported
Affiliation Address:	435 South Melrose Dr, Ste 105
Affiliation City:	Vista
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92084
Affiliation Phone:	(760) 758-7580
Affiliation Type Desc:	Document Preparer
Entity Name:	Allison Winton
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:	Allison Winton
Entity Title:	Not reported
Affiliation Address:	17000 Red Hill Avenue
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92614
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Allison Winton
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:	(714) 845-8243
Affiliation Type Desc:	CUPA District
Entity Name:	San Diego County Env Health
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

7
ENE
< 1/8
0.117 mi.
620 ft.

ENRIQUE MARROQUINE
1104 COLLINSWOOD LANE
VISTA, CA 92084

RCRA NonGen / NLR

1026482844
CAC003088902

Relative:
Higher

Actual:
407 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-10-19 00:00:00.0
Handler Name:	ENRIQUE MARROQUINE	
Handler Address:		1104 COLLINSWOOD LANE
Handler City,State,Zip:		VISTA, CA 92084
EPA ID:		CAC003088902
Contact Name:		ENRIQUE MARROQUINE
Contact Address:		1104 COLLINSWOOD LANE
Contact City,State,Zip:		VISTA, CA 92084
Contact Telephone:		760-917-1639
Contact Fax:		Not reported
Contact Email:		RTRIM@HSABATEMENT.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1104 COLLINSWOOD LANE
Mailing City,State,Zip:		VISTA, CA 92084
Owner Name:		ENRIQUE MARROQUINE
Owner Type:		Other
Operator Name:		ENRIQUE MARROQUINE
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

ENRIQUE MARROQUINE (Continued) **1026482844**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-10-26 14:55:36.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ENRIQUE MARROQUINE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1104 COLLINSWOOD LANE
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-917-1639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ENRIQUE MARROQUINE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1104 COLLINSWOOD LANE
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-917-1639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ENRIQUE MARROQUINE (Continued) **1026482844**

Historic Generators:
- Receive Date: 2020-10-19 00:00:00.0
- Handler Name: ENRIQUE MARROQUINE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

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8 **LAHIRU RATH** **RCRA NonGen / NLR** **1026718966**
SSW **1104 MELROSE WAY** **CAC003107578**
1/8-1/4 **VISTA, CA 92081**
0.179 mi.
943 ft.

Relative: **Higher**

Actual: **373 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2021-02-26 00:00:00.0
- Handler Name: LAHIRU RATH
- Handler Address: 1104 MELROSE WAY
- Handler City,State,Zip: VISTA, CA 92081
- EPA ID: CAC003107578
- Contact Name: LAHIRU RATH
- Contact Address: 1104 MELROSE WAY
- Contact City,State,Zip: VISTA, CA 92081
- Contact Telephone: 619-850-9190
- Contact Fax: Not reported
- Contact Email: OFFICE@SOCALABATEMENT.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 1104 MELROSE WAY
- Mailing City,State,Zip: VISTA, CA 92081
- Owner Name: LAHIRU RATH

LAHIRU RATH (Continued) **1026718966**

Owner Type:	Other
Operator Name:	LAHIRU RATH
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2021-02-26 18:46:20.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

LAHIRU RATH (Continued) **1026718966**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: LAHIRU RATH
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1104 MELROSE WAY
Owner/Operator City,State,Zip: VISTA, CA 92081
Owner/Operator Telephone: 619-850-9190
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LAHIRU RATH
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1104 MELROSE WAY
Owner/Operator City,State,Zip: VISTA, CA 92081
Owner/Operator Telephone: 619-850-9190
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2021-02-26 00:00:00.0
Handler Name: LAHIRU RATH
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

9
NE
1/8-1/4
0.207 mi.
1094 ft.

SLIVNIK, AUGUST & MICHELLE
671 MATAGUAL DR.
VISTA, CA 92081

RCRA NonGen / NLR **1024768994**
CAC002988882

Relative:
Lower

Actual:
346 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-11-12 00:00:00.0
Handler Name:	SLIVNIK, AUGUST & MICHELLE
Handler Address:	671 MATAGUAL DR.
Handler City,State,Zip:	VISTA, CA 92081
EPA ID:	CAC002988882
Contact Name:	SLIVNIK, AUGUST & MICHELLE
Contact Address:	671 MATAGUAL DR.
Contact City,State,Zip:	VISTA, CA 92081
Contact Telephone:	760-917-2065
Contact Fax:	Not reported
Contact Email:	VANESSAPIZARRO@ALLIANCE-ENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	671 MATAGUAL DR.
Mailing City,State,Zip:	VISTA, CA 92081
Owner Name:	SLIVNIK, AUGUST & MICHELLE
Owner Type:	Other
Operator Name:	SLIVNIK, AUGUST & MICHELLE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

SLIVNIK, AUGUST & MICHELLE (Continued) **1024768994**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-11-20 16:31:05.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SLIVNIK, AUGUST & MICHELLE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	671 MATAGUAL DR.
Owner/Operator City,State,Zip:	VISTA, CA 92081
Owner/Operator Telephone:	760-917-2065
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SLIVNIK, AUGUST & MICHELLE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	671 MATAGUAL DR.
Owner/Operator City,State,Zip:	VISTA, CA 92081
Owner/Operator Telephone:	760-917-2065
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SLIVNIK, AUGUST & MICHELLE (Continued) **1024768994**

Historic Generators:
Receive Date: 2018-11-12 00:00:00.0
Handler Name: SLIVNIK, AUGUST & MICHELLE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C10 **VISTA REGIONAL CENTER-GARAGE** **San Diego Co. HMMD** **U001572507**
NNW **325 S MELROSE DR** **HIST UST** **N/A**
1/8-1/4 **VISTA, CA 92083** **NPDES**
0.245 mi. **CIWQS**
1293 ft. **Site 1 of 9 in cluster C** **CERS**

Relative: Lower
Actual: 312 ft.

HMMD SAN DIEGO:
Name: NORTH COUNTY REGIONAL CENTER
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Permit Number: 129820
Business Type: 6HK41
EPA Id Number: CAD981694912
APN: 163-470-05-01
Last HMMD Inspection: 07/19/2012
Facility Telephone: 760-940-4522
Permit Status: OPEN
Permit Expiration: 01/31/2013
Date Last Updated: 11/02/2012
Facility Owner: COUNTY OF SAN DIEGO
Facility Mailing Address: 5555 OVERLAND AVE MS 0-19
Facility Mailing City: SAN DIEGO
Facility Mailing State: CA
Facility Mailing Zip: 92113-1219
UST Owner: COUNTY OF SAN DIEGO
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Inventory Active Permits (not SQG Medical):

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	DIESEL
Other Information:	UNDERGROUND TANK 129820 T004 DIESEL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	Not reported
Name:	LATEX PAINT
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	2809-21-4
Name:	POLYMALEIC ACID
Other Information:	TRIDENT 6060
Material Waste:	Material
Hazardous Categories 1:	REACTIVE
Hazardous Categories 2:	ACUTE

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	7664-93-9
Name:	SULFURIC ACID
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	REACTIVE
Hazardous Categories 2:	ACUTE

Permit Number:	129820
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 461 PAINT SLUDGE
Other Information:	PAINT / THINNER WASTE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV1014
Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV0228
Violation:	CONTAINER NOT KEPT CLOSED
Violation Citation:	Failed to keep container closed. CFR 265.173
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV3115
Violation:	NO 2NDARY CONTAINMT. TEST/REPAIRS
Violation Citation:	Secondary containment testing not completed (passed) for all components &/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3104
Violation:	FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation:	CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0228
Violation:	CONTAINER NOT KEPT CLOSED
Violation Citation:	Failed to keep container closed. CFR 265.173
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV3152
Violation:	ALL MAINT/MONITOR RECORDS NOT AVAILABLE
Violation Citation:	All maintenance/monitoring/calibration/ repair records not available.

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

	25293; 2712 (b)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV0201
Violation:	WASTE CONTAINER NOT CLOSED
Violation Citation:	Hazardous waste containers are not kept closed while in storage. CCR 66265.173(a)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	12/05/2006
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV0229
Violation:	HW CONTAINERS NOT INSPECTED WEEKLY
Violation Citation:	Failed to conduct weekly inspections. CFR 265.174
Activity:	ACTIVE
Permit Number:	129820

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS
Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV3113
Violation:	2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation:	Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV4209
Violation:	NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation:	Red bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/05/2008
Violation Code:	6HV1014
Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	09/16/2004

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Permit Number: 129820
Update Date: 11/02/2012
Inspection Date: 09/16/2004
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 129820 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: V1
Capacity Gallons: 20000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1998-12-03 00:00:00
Year Installed: 1976-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: SUCTION
Monitor Code: 10
UST Monitor Method: SW TANK DW PRESSURE PIPE W/POS SHUTOFF LLD W/DAILY RECONCILE OR WEEKLY GAUGE: TNK TEST ANN, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 129820 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: V2
Capacity Gallons: 20000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1998-12-03 00:00:00
Year Installed: 1976-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: SUCTION
Monitor Code: 10
UST Monitor Method: SW TANK DW PRESSURE PIPE W/POS SHUTOFF LLD W/DAILY RECONCILE OR WEEKLY GAUGE: TNK TEST ANN, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 129820 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: TO03

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1998-12-03 00:00:00
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 129820 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	129820
Tank Type:	DOUBLE WALL
Additional Id:	NT2048 DIESEL, RT2871, RT3354, RT3622,RT5284
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1998-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	SUCTION
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

Name:	NORTH COUNTY REGIONAL CENTER
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	129820
Business Type:	6HK41
EPA Id Number:	CAD981694912
APN:	163-470-05-01
Last HMMD Inspection:	07/19/2012
Facility Telephone:	760-940-4522
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	COUNTY OF SAN DIEGO
Facility Mailing Address:	5555 OVERLAND AVE MS 0-19
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92113-1219
UST Owner:	COUNTY OF SAN DIEGO
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	129820
Update Date:	11/02/2012

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Case Number: 8006-61-9
Name: DIESEL
Other Information: UNDERGROUND TANK 129820 T004 DIESEL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Permit Number: 129820
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL FUEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Permit Number: 129820
Update Date: 11/02/2012
Case Number: Not reported
Name: LATEX PAINT
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Permit Number: 129820
Update Date: 11/02/2012
Case Number: 2809-21-4
Name: POLYMALEIC ACID
Other Information: TRIDENT 6060
Material Waste: Material
Hazardous Categories 1: REACTIVE
Hazardous Categories 2: ACUTE

Permit Number: 129820
Update Date: 11/02/2012
Case Number: 7664-93-9
Name: SULFURIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: REACTIVE
Hazardous Categories 2: ACUTE

Permit Number: 129820
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: PAINT / THINNER WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 129820
Update Date: 11/02/2012
Inspection Date: 11/18/2009
Violation Code: 6HV1014

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV0228
Violation:	CONTAINER NOT KEPT CLOSED
Violation Citation:	Failed to keep container closed. CFR 265.173
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/18/2009
Violation Code:	6HV3115
Violation:	NO 2NDARY CONTAINMT. TEST/REPAIRS
Violation Citation:	Secondary containment testing not completed (passed) for all components &/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3104
Violation:	FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation:	CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	10/16/2007
Violation Code:	6HV0228
Violation:	CONTAINER NOT KEPT CLOSED
Violation Citation:	Failed to keep container closed. CFR 265.173
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV3152
Violation:	ALL MAINT/MONITOR RECORDS NOT AVAILABLE
Violation Citation:	All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)
Activity:	ACTIVE
Permit Number:	129820

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV0201
Violation:	WASTE CONTAINER NOT CLOSED
Violation Citation:	Hazardous waste containers are not kept closed while in storage. CCR 66265.173(a)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/03/2005
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	12/05/2006
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV0229
Violation:	HW CONTAINERS NOT INSPECTED WEEKLY
Violation Citation:	Failed to conduct weekly inspections. CFR 265.174
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	07/21/2011
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV3113
Violation:	2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation:	Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	03/13/2003
Violation Code:	6HV4209
Violation:	NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation:	Red bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	11/05/2008
Violation Code:	6HV1014
Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE
Permit Number:	129820
Update Date:	11/02/2012
Inspection Date:	09/16/2004
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a)

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

& 25160.2(b)(3)
Activity: ACTIVE

Permit Number: 129820
Update Date: 11/02/2012
Inspection Date: 09/16/2004
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 129820 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: V1
Capacity Gallons: 20000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1998-12-03 00:00:00
Year Installed: 1976-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: SUCTION
Monitor Code: 10
UST Monitor Method: SW TANK DW PRESSURE PIPE W/POS SHUTOFF LLD W/DAILY RECONCILE OR WEEKLY GAUGE: TNK TEST ANN, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 129820 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: V2
Capacity Gallons: 20000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1998-12-03 00:00:00
Year Installed: 1976-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: SUCTION
Monitor Code: 10
UST Monitor Method: SW TANK DW PRESSURE PIPE W/POS SHUTOFF LLD W/DAILY RECONCILE OR WEEKLY GAUGE: TNK TEST ANN, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 129820 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 129820
Tank Type: SINGLE WALL
Additional Id: TO03
Capacity Gallons: 550
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Remove Close Date:	1998-12-03 00:00:00
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 129820 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	129820
Tank Type:	DOUBLE WALL
Additional Id:	NT2048 DIESEL, RT2871, RT3354, RT3622,RT5284
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1998-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	SUCTION
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

HIST UST:

Name:	VISTA REGIONAL CENTER-GARAGE
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000044129
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	DON MADISON (565-5444)
Telephone:	6197586675
Owner Name:	COUNTY OF SAN DIEGO
Owner Address:	5555 OVERLAND AVE.
Owner City,St,Zip:	SAN DIEGO, CA 92123
Total Tanks:	0003
Tank Num:	001
Container Num:	GS014
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	GS015
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: GS016
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

NPDES:
Name: NORTH COUNTY REGIONAL CENTER
Address: 325 SOUTH MELROSE DR
City,State,Zip: VISTA, CA 92081
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: 9 37C387066
Regulatory Measure Type: Construction
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: Terminated
Status Date: 10/09/2020
Operator Name: County Of San Diego
Operator Address: 5560 Overland Ave Suite 410
Operator City: San Diego
Operator State: California
Operator Zip: 92123

Name: NORTH COUNTY REGIONAL CENTER
Address: 325 SOUTH MELROSE DR
City,State,Zip: VISTA, CA 92081
Facility Status: Terminated
NPDES Number: CAS000002
Region: 9
Agency Number: 0
Regulatory Measure ID: 508590
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 9 37C387066
Regulatory Measure Type: Enrollee
Program Type: Construction

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/03/2019
Termination Date Of Regulatory Measure:	10/08/2020
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	5560 Overland Ave Suite 410
Discharge Name:	County Of San Diego
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92123
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

CIWQS:

Name:	NORTH COUNTY REGIONAL CENTER
Address:	325 SOUTH MELROSE DR
City,State,Zip:	VISTA, CA 92081
Agency:	County Of San Diego
Agency Address:	5560 Overland Ave Suite 410, San Diego, CA 92123
Place/Project Type:	Construction - Other: Parking Lot Re-habilitation
SIC/NAICS:	Not reported
Region:	9
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	9 37C387066
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	06/03/2019
Termination Date:	10/08/2020
Expiration/Review Date:	01/01/1900
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:	33.1903
Longitude:	-117.25571

CERS:

Name:	NORTH COUNTY REGIONAL CENTER
Address:	325 SOUTH MELROSE DR
City,State,Zip:	VISTA, CA 92081
Site ID:	547525
CERS ID:	872449
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	County of San Diego
Entity Title:	Operator

VISTA REGIONAL CENTER-GARAGE (Continued) **U001572507**

Affiliation Address:	5560 Overland Ave Suite 410
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92123
Affiliation Phone:	Not reported

C11 **JUDICIAL COUNCIL OF CALIFORNIA** **RCRA NonGen / NLR** **1026475114**
NNW **325 SOUTH MELROSE DRIVE** **CAC003080849**
1/8-1/4 **SAN DIEGO, CA 92081**
0.245 mi.
1293 ft. **Site 2 of 9 in cluster C**

Relative: **Lower**
Actual: **312 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-08-25 00:00:00.0
Handler Name:	JUDICIAL COUNCIL OF CALIFORNIA
Handler Address:	325 SOUTH MELROSE DRIVE
Handler City,State,Zip:	SAN DIEGO, CA 92081
EPA ID:	CAC003080849
Contact Name:	H. IORGA - JUDICIAL COUNCIL OF CA
Contact Address:	2860 GATEWAY OAKS DR
Contact City,State,Zip:	SACRAMENTO, CA 95833
Contact Telephone:	916-263-1541
Contact Fax:	Not reported
Contact Email:	EHS@JUD.CA.GOV
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2860 GATEWAY OAKS DR
Mailing City,State,Zip:	SACRAMENTO, CA 95833
Owner Name:	JUDICIAL COUNCIL OF CALIFORNIA
Owner Type:	Other
Operator Name:	H. IORGA - JUDICIAL COUNCIL OF CA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported

JUDICIAL COUNCIL OF CALIFORNIA (Continued) **1026475114**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-09-04 15:31:11.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	H. IORGA - JUDICIAL COUNCIL OF CA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 GATEWAY OAKS DR
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95833
Owner/Operator Telephone:	916-263-1541
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JUDICIAL COUNCIL OF CALIFORNIA
Legal Status:	Other

JUDICIAL COUNCIL OF CALIFORNIA (Continued) **1026475114**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 GATEWAY OAKS DR
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95833
Owner/Operator Telephone:	888-225-3583
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-08-25 00:00:00.0
Handler Name:	JUDICIAL COUNCIL OF CALIFORNIA
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	922110
NAICS Description:	COURTS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C12 **325 SO MELROSE DR** **ENVIROSTOR** **S121615632**
NNW **325 S MELROSE DR** **VCP** **N/A**
1/8-1/4 **VISTA, CA 92083** **CIWQS**
0.245 mi.
1293 ft. **Site 3 of 9 in cluster C**

Relative: **Lower**

Actual: **312 ft.**

ENVIROSTOR:

Name:	VISTA DETENTION FACILITY
Address:	325 SOUTH MELROSE DRIVE
City,State,Zip:	VISTA, CA 92081
Facility ID:	60002728
Status:	Active
Status Date:	05/29/2020
Site Code:	401851
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Patrick Hsieh

325 SO MELROSE DR (Continued) **S121615632**

Division Branch: Cleanup Cypress
Assembly: 76
Senate: 36
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.19173
Longitude: -117.2568
APN: NONE SPECIFIED
Past Use: FIRING RANGE - SMALL ARMS ETC...
Potential COC: Lead Copper and compounds
Confirmed COC: Lead Copper and compounds
Potential Description: IA, SOIL, SV
Alias Name: 401851
Alias Type: Project Code (Site Code)
Alias Name: 60002728
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
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: VISTA DETENTION FACILITY
Address: 325 SOUTH MELROSE DRIVE
City,State,Zip: VISTA, CA 92081
Facility ID: 60002728
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Patrick Hsieh
Division Branch: Cleanup Cypress
Site Code: 401851
Assembly: 76
Senate: 36
Special Programs Code: Not reported
Status: Active

325 SO MELROSE DR (Continued) **S121615632**

Status Date:	05/29/2020
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.19173 / -117.2568
APN:	NONE SPECIFIED
Past Use:	FIRING RANGE - SMALL ARMS ETC...
Potential COC:	30013, 30156
Confirmed COC:	30013,30156
Potential Description:	IA, SOIL, SV
Alias Name:	401851
Alias Type:	Project Code (Site Code)
Alias Name:	60002728
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
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CIWQS:

Name:	325 SO MELROSE DR
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Agency:	San Diego Cnty
Agency Address:	5555 Overland Ave, San Diego, CA 92123
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	9
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	9 37C307259
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	05/30/1997
Termination Date:	08/24/1999
Expiration/Review Date:	01/01/1900
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:	Not reported

325 SO MELROSE DR (Continued) **S121615632**

Longitude: Not reported

C13 **VISTA REGIONAL CENTER-GARAGE** **LUST** **S103652909**
NNW **325 SOUTH MELROSE DRIVE** **CPS-SLIC** **N/A**
1/8-1/4 **VISTA, CA 92083** **HIST UST**
0.245 mi. **SAN DIEGO CO LOP**
1293 ft. **Site 4 of 9 in cluster C**

Relative:
Lower

Actual:
312 ft.

LUST:

Name:	COUNTY OF SD GEN SVCS OPER.
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 920834843
Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607302386
Global Id:	T0607302386
Latitude:	33.1908031
Longitude:	-117.2540121
Status:	Completed - Case Closed
Status Date:	11/06/2001
Case Worker:	JS
RB Case Number:	9UT3618
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H14739-002
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607302386
Contact Type:	Local Agency Caseworker
Contact Name:	JON SENAHA
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	jon.senaha@sdcounty.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607302386
Action Type:	ENFORCEMENT
Date:	11/06/2001
Action:	Closure/No Further Action Letter

Global Id:	T0607302386
Action Type:	Other
Date:	02/13/1998
Action:	Leak Began

Global Id:	T0607302386
Action Type:	Other
Date:	02/13/1998
Action:	Leak Discovery

Global Id:	T0607302386
Action Type:	Other
Date:	02/13/1998

VISTA REGIONAL CENTER-GARAGE (Continued) **S103652909**

Action: Leak Stopped

Global Id: T0607302386
Action Type: Other
Date: 03/06/1998
Action: Leak Reported

LUST:
Global Id: T0607302386
Status: Open - Case Begin Date
Status Date: 02/13/1998

Global Id: T0607302386
Status: Completed - Case Closed
Status Date: 11/06/2001

CPS-SLIC:
Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/28/1992
Global Id: T0608107853
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H14739-001
Latitude: 33.191303
Longitude: -117.253878
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:
Name: VISTA REGIONAL CENTER-GARAGE
Address: 325 SOUTH MELROSE DRIVE
City,State,Zip: VISTA, CA 92083
File Number: 0002B01B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B01B.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

VISTA REGIONAL CENTER-GARAGE (Continued) **S103652909**

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:

SAN DIEGO CO LOP:

Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Record ID: DEH1998-LSAM-H14739-002
Record Status: Completed
Opened Date: 03/06/1998
Parcel Number: 166-150-53-00
Case Type: LOP - Local Oversight Program
Historical Name: NORTH COUNTY REGIONAL CENTER
SWRCB Global ID: T0607302386
Funding: F - LOP Federal Fund
Lead Agency: DEH/SAM
Lead Agency Date: 03/09/1998
Census Tract: 197.01
Community: Not reported
Jurisdiction: Not reported
Watershed Basin Number: 904.22
Water Purveyor: Not reported
Fire Agency: Not reported
Latitude: Not reported
Longitude: Not reported
X MapCoord: Not reported
Y MapCoord: Not reported

Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Record ID: DEH1989-LSAM-H14739-001
Record Status: Completed
Opened Date: 10/09/1989
Parcel Number: 166-150-53-00
Case Type: FIT - Failed Integrity Test
Historical Name: NORTH COUNTY REGIONAL CENTER
SWRCB Global ID: T0608107853
Funding: N - Non-Billable
Lead Agency: DEH/SAM
Lead Agency Date: 10/09/1989
Census Tract: 197.01
Community: Not reported
Jurisdiction: Not reported
Watershed Basin Number: 904.22
Water Purveyor: Not reported
Fire Agency: Not reported
Latitude: Not reported
Longitude: Not reported

VISTA REGIONAL CENTER-GARAGE (Continued) **S103652909**

X MapCoord: Not reported
Y MapCoord: Not reported

C14 **GEN SERV FACILITIES MAINTENANC** **SAN DIEGO CO. SAM** **U003789493**
NNW **325 S MELROSE DR** **UST** **N/A**
1/8-1/4 **VISTA, CA 92081** **Cortese**
0.245 mi. **CERS**
1293 ft. **Site 5 of 9 in cluster C**

Relative: Lower
Actual: 312 ft.

SAN DIEGO CO. SAM:
Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843
Case Number: H14739-001
Agency: DEH Site Assessment & Mitigation
Funding: **Non Billable**
Facility Type: Failed Integrity Test
Facility Status: Closed Case
Date: 4/28/1992
Date Began: 5/31/1989

Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843
Case Number: H14739-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 11/6/2001
Date Began: 2/13/1998

UST:
Name: SD CNTY GEN SVCS FLEET FUEL
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Facility ID: 37-000-114739
Permitting Agency: San Diego County Department of Environmental Health
Latitude: Not reported
Longitude: Not reported

Name: SD CNTY NORTH COUNTY REGIONAL CENTER
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Facility ID: 37-000-129820
Permitting Agency: San Diego County Department of Environmental Health
Latitude: Not reported
Longitude: Not reported

Name: NORTH COUNTY REGIONAL CENTER
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Facility ID: 37-000-129820
Permitting Agency: San Diego County Department of Environme
Latitude: Not reported
Longitude: Not reported

GEN SERV FACILITIES MAINTENANC (Continued) **U003789493**

Name: GEN SERV FACILITIES MAINTENANC
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Facility ID: H29820
Permitting Agency: SAN DIEGO COUNTY
Latitude: 33.1936709
Longitude: -117.2551815

CORTESE:
Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607302386
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843
Site ID: 241723
CERS ID: T0608107853
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JON SENAHA - SAN DIEGO COUNTY LOP
Entity Title: Not reported
Affiliation Address: P.O. Box 129261
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: COUNTY OF SD GEN SVCS OPER.
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 920834843

GEN SERV FACILITIES MAINTENANC (Continued) **U003789493**

Site ID: 241723
CERS ID: T0607302386
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JON SENAHA - SAN DIEGO COUNTY LOP
Entity Title: Not reported
Affiliation Address: P.O. Box 129261
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C15 **SD COUNTY SHERIFFS DEPT MEDICAL SERVICES-VISTA DET** **RCRA NonGen / NLR** **1024870612**
NNW **325 S MELROSE AVE** **CAL000439252**
1/8-1/4 **VISTA, CA 92083**
0.245 mi.
1293 ft. **Site 6 of 9 in cluster C**

Relative: **Lower**
Actual: **312 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2018-09-19 00:00:00.0
Handler Name: SD COUNTY SHERIFFS DEPT MEDICAL SERVICES-VISTA DETENTION FACILITY
Handler Address: 325 S MELROSE AVE
Handler City,State,Zip: VISTA, CA 92083
EPA ID: CAL000439252
Contact Name: ARNOLD FAJAYAN
Contact Address: 325 S MELROSE AVE
Contact City,State,Zip: VISTA, CA 92083
Contact Telephone: 760-940-4492
Contact Fax: 760-940-4533
Contact Email: ARNOLD.FAJAYAN@SDSHERIFF.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 5530 OVERLAND AVE STE 370
Mailing City,State,Zip: SAN DIEGO, CA 92123
Owner Name: SD COUNTY SHERIFFS DEPT MEDICAL SER
Owner Type: Other
Operator Name: ARNOLD FAJAYAN
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

SD COUNTY SHERIFFS DEPT MEDICAL SERVICES-VISTA DETENTION FAC (Continued) **1024870612**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-10-01 18:39:22.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SD COUNTY SHERIFFS DEPT MEDICAL SER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5530 OVERLAND AVE STE 370
Owner/Operator City,State,Zip:	SAN DIEGO, CA 92123

SD COUNTY SHERIFFS DEPT MEDICAL SERVICES-VISTA DETENTION FAC (Continued) **1024870612**

Owner/Operator Telephone: 858-974-5971
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ARNOLD FAJAYAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 325 S MELROSE AVE
Owner/Operator City,State,Zip: VISTA, CA 92083
Owner/Operator Telephone: 760-940-4492
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2018-09-19 00:00:00.0
Handler Name: SD COUNTY SHERIFFS DEPT MEDICAL SERVICES-VISTA DETENTION FACILITY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 922140
NAICS Description: CORRECTIONAL INSTITUTIONS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C16 **NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY** **RCRA NonGen / NLR** **1026163419**
NNW **325 SOUTH MELROSE DRIVE** **CAC003063412**
1/8-1/4 **VISTA, CA 92081**
0.245 mi.
1293 ft. **Site 7 of 9 in cluster C**

Relative: **Lower**
Actual: **312 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2020-04-15 00:00:00.0
Handler Name: NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY
Handler Address: 325 SOUTH MELROSE DRIVE
Handler City,State,Zip: VISTA, CA 92081
EPA ID: CAC003063412
Contact Name: KENNY LIN
Contact Address: 325 SOUTH MELROSE DRIVE

NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY (Continued) **1026163419**

Contact City,State,Zip:	VISTA, CA 92081
Contact Telephone:	760-201-8600
Contact Fax:	Not reported
Contact Email:	VANESSAPIZARRO@ALLIANCE-ENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	325 SOUTH MELROSE DRIVE
Mailing City,State,Zip:	VISTA, CA 92081
Owner Name:	NORTH COUNTY TRANSIT DISTRICT PUBLI
Owner Type:	Other
Operator Name:	KENNY LIN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY (Continued) **1026163419**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-04-24 18:56:30.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NORTH COUNTY TRANSIT DISTRICT PUBLI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	325 SOUTH MELROSE DRIVE
Owner/Operator City,State,Zip:	VISTA, CA 92081
Owner/Operator Telephone:	760-201-8600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KENNY LIN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	325 SOUTH MELROSE DRIVE
Owner/Operator City,State,Zip:	VISTA, CA 92081
Owner/Operator Telephone:	760-201-8600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-04-15 00:00:00.0
Handler Name:	NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

NORTH COUNTY TRANSIT DISTRICT PUBLIC AGENCY (Continued) **1026163419**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C17 **JUDICIAL COUNCIL OF CALIFORNIA** **RCRA NonGen / NLR** **1024782119**
NNW **325 SOUTH MELROSE DRIVE** **CAC003002096**
1/8-1/4 **VISTA, CA 92081**
0.245 mi.
1293 ft. **Site 8 of 9 in cluster C**

Relative: **Lower**
Actual: **312 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2019-02-21 00:00:00.0
Handler Name: JUDICIAL COUNCIL OF CALIFORNIA
Handler Address: 325 SOUTH MELROSE DRIVE
Handler City,State,Zip: VISTA, CA 92081
EPA ID: CAC003002096
Contact Name: H. IORGA - JUDICIAL COUNCIL OF CA
Contact Address: 2860 GATEWAY OAKS DRIVE
Contact City,State,Zip: SACRAMENTO, CA 95833
Contact Telephone: 916-263-1541
Contact Fax: Not reported
Contact Email: EHS@JUD.CA.GOV
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 2860 GATEWAY OAKS DRIVE
Mailing City,State,Zip: SACRAMENTO, CA 95833
Owner Name: JUDICIAL COUNCIL OF CALIFORNIA
Owner Type: Other
Operator Name: H. IORGA - JUDICIAL COUNCIL OF CA
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

JUDICIAL COUNCIL OF CALIFORNIA (Continued) **1024782119**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:41:55.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JUDICIAL COUNCIL OF CALIFORNIA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 GATEWAY OAKS DRIVE
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95833

JUDICIAL COUNCIL OF CALIFORNIA (Continued) **1024782119**

Owner/Operator Telephone: 888-225-3583
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: H. IORGA - JUDICIAL COUNCIL OF CA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2860 GATEWAY OAKS DRIVE
Owner/Operator City,State,Zip: SACRAMENTO, CA 95833
Owner/Operator Telephone: 916-263-1541
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-02-21 00:00:00.0
Handler Name: JUDICIAL COUNCIL OF CALIFORNIA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 922110
NAICS Description: COURTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C18 **SD CNTY VISTA DET FAC - MED SVCS** **CPS-SLIC** **S106061243**
NNW **325 S MELROSE DR** **San Diego Co. HMMD** **N/A**
1/8-1/4 **VISTA, CA 92083** **CERS**
0.245 mi.
1293 ft. **Site 9 of 9 in cluster C**

Relative: CPS-SLIC:
Lower Name: SHERIFF VISTA STATION, NORTH COUNTY REGIONAL CENTER
Actual: Address: 325 S. MELROSE DRIVE
312 ft. City,State,Zip: VISTA, CA 92083
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/06/2018
Global Id: T10000011511

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	DEH2018-LSAM-000476
Latitude:	33.19177
Longitude:	-117.25688
Case Type:	Cleanup Program Site
Case Worker:	EM
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	DTSC
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Name:	SD CNTY VISTA DET FAC - MED SVCS
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000439252
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	760-940-4492
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	01/01/2021
Facility Owner:	Not reported
Facility Mailing Address:	5530 Overland Ave Suite 370, SAN DIEGO, CA 92123
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Inspection Violation:

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-207078
Program Element:	Medical Waste
Inspection Type:	Routine
Inspection Number:	5852261
Return To Compliance Date:	2018-02-15T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-01-01T00:00:00.000
Inspection Date:	2018-02-13T14:31:00.000
Violation Code:	HMD4303 Did not maintain on file disposal receipts, tracking or

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

shipping documents for medical waste shipped offsite for at least 3 years. HSC 117945

Waste and Materials:

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0136847
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-01-09T02:31:53.000
Chemical Name:	Sharps
Common Name:	Sharps
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0052836
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-07-22T00:50:54.000
Chemical Name:	Sharps
Common Name:	Sharps
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0052837
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-07-22T00:50:54.000
Chemical Name:	PHOTOCHEM/PHOTOPROC WASTE
Common Name:	FIXER WASTE/DENTAL DEPT.
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0052838
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-07-22T00:50:54.000
Chemical Name:	Red Bag waste
Common Name:	Red bag waste
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0223065
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2021-01-01T02:34:32.000
Chemical Name:	RCRA Pharmaceutical Waste - Aerosols
Common Name:	RCRA Pharmaceutical Waste - Aerosols

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Case Number: Not reported

Record ID: DEH2006-HUPFP-207078
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0223061
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2021-01-01T02:34:32.000
Chemical Name: Sharps Waste
Common Name: Sharps Waste
Case Number: Not reported

Record ID: DEH2006-HUPFP-207078
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0223062
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2021-01-01T02:34:32.000
Chemical Name: PHOTOCHEM/PHOTOPROC WASTE
Common Name: FIXER WASTE/DENTAL DEPT.
Case Number: Not reported

Record ID: DEH2006-HUPFP-207078
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0223063
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2021-01-01T02:34:32.000
Chemical Name: Red Bag waste
Common Name: Red bag waste
Case Number: Not reported

Record ID: DEH2006-HUPFP-207078
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0223064
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2021-01-01T02:34:32.000
Chemical Name: NON-RCRA Pharmaceutical Waste
Common Name: NON-RCRA Pharmaceutical Waste
Case Number: Not reported

Record ID: DEH2006-HUPFP-207078
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0136848
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-01-09T02:31:53.000
Chemical Name: PHOTOCHEM/PHOTOPROC WASTE
Common Name: FIXER WASTE/DENTAL DEPT.
Case Number: Not reported

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0136849
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-01-09T02:31:53.000
Chemical Name:	Red Bag waste
Common Name:	Red bag waste
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-207078
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0136850
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-01-09T02:31:53.000
Chemical Name:	PHARM WASTE
Common Name:	PHARM WASTE
Case Number:	Not reported

Name:	SD CNTY VISTA DET FAC - MED SVCS
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	207078
Business Type:	6HK10
EPA Id Number:	Not reported
APN:	163-470-05-01
Last HMMD Inspection:	08/12/2011
Facility Telephone:	760-940-4492
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	SHERIFFS DEPT MED SERVICES DIVISION
Facility Mailing Address:	8525 GIBBS DR #303 MS: 0-317
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92123
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (SQG Medical):

Permit Number:	207078
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information:	MICROWAVE & SHRED
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Permit Number: 207078
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 541 PHOTOCHEM/PHOTOPROC WASTE
Other Information: FIXER WASTE/DENTAL DEPT.
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 207078
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: MICROWAVE & SHRED
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 07/25/2008
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Name: SD CNTY GEN SVCS FLEET FUEL
Address: 325 S MELROSE DR
City,State,Zip: VISTA, CA 92083
Permit Number: Not reported
Business Type: Not reported
EPA Id Number: cad981694912
APN: Not reported
Last HMMD Inspection: Not reported
Facility Telephone: 619-921-7874
Permit Status: Permit Renewed

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Permit Expiration:	Not reported
Date Last Updated:	02/18/2021
Facility Owner:	Not reported
Facility Mailing Address:	5560 Overland Ave. 4th Floor, Suite 410, San Diego, CA 92123
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	Y
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	N
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Inspection Violation:

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	6038171
Return To Compliance Date:	2018-12-03T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	23637
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2018-12-03T13:21:00.000
Violation Code:	2030017 (TCR 9d) Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: The monitoring system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC). 23 CCR 2636(f)

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Program Element:	Underground Storage Tank
Inspection Type:	Return To Compliance (RTC)
Inspection Number:	4972436
Return To Compliance Date:	2013-12-17T00:00:00.000
Nov:	No
Violation Classification:	Not reported
Underground Storage Tank Id:	1234
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2013-12-16T07:48:00.000
Violation Code:	2030026 Failure of line leak detector to detect a leak and/or failure of audible and visual alarm. 23 CCR 16 2636(f)(2), 2666.

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Facility Id Number:	37-000-114739
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	6038171
Return To Compliance Date:	2018-12-05T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2018-12-03T13:21:00.000
Violation Code:	HMD1005 Emergency contact not provided or current in CERS. HSC 25508.1(f); SDCC 68.904(b)

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	4835462
Return To Compliance Date:	2013-12-17T00:00:00.000
Nov:	No
Violation Classification:	Not reported
Underground Storage Tank Id:	1234
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2013-12-16T08:39:00.000
Violation Code:	2030026 Failure of line leak detector to detect a leak and/or failure of audible and visual alarm. 23 CCR 16 2636(f)(2), 2666.

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	6038171
Return To Compliance Date:	Not reported
Nov:	Not reported
Violation Classification:	Not reported
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2018-12-03T13:21:00.000
Violation Code:	2010015 Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the CUPA. for training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the CUPA. 23 CCR 2715(C)(3-4)

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Program Element:	Underground Storage Tank

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Inspection Type:	Routine
Inspection Number:	6301774
Return To Compliance Date:	2019-12-10T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	23637
Container/Tank Id:	Not reported
Last Update:	2021-02-18T00:00:00.000
Inspection Date:	2019-12-10T17:33:04.000
Violation Code:	2030017 (TCR 9d) Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: The monitoring system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC). 23 CCR 2636(f)

UST DTL:

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-114739
Facility Type (Ust Facility):	Motor Vehicle Fueling
Tank Owner Name:	County of San Diego
Tankid:	23637
Tank Status:	Active
Date Ust Permanently Closed:	Not reported
Tank Use:	Motor Vehicle Fueling
Piping System Type:	Pressure
Last Updated:	2021-02-18T02:34:45.000
Tank Capacityin Gallons:	15000
Tank Contents:	Regular Unleaded
Type Of Tank:	Double Wall

Waste and Materials:

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0086611
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2018-03-30T02:32:12.000
Chemical Name:	DIESEL FUEL
Common Name:	GENERATOR
Case Number:	68476-34-6

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0086612
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2018-03-30T02:32:12.000
Chemical Name:	REGULAR UNLEADED
Common Name:	UNDERGROUND TANK 114739 T004
Case Number:	8006-61-9

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HCHEM-0230396
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2020-07-28T00:31:23.000
Chemical Name:	REGULAR UNLEADED
Common Name:	UNDERGROUND TANK 114739 T004
Case Number:	8006-61-9

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HCHEM-0282832
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2021-02-18T02:34:45.000
Chemical Name:	DIESEL FUEL
Common Name:	GENERATOR
Case Number:	68476-34-6

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HCHEM-0282833
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2021-02-18T02:34:45.000
Chemical Name:	REGULAR UNLEADED
Common Name:	UNDERGROUND TANK 114739 T004
Case Number:	8006-61-9

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2019-HCHEM-0230395
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2020-07-28T00:31:23.000
Chemical Name:	DIESEL FUEL
Common Name:	GENERATOR
Case Number:	68476-34-6

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0201109
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2019-02-27T02:33:09.000
Chemical Name:	DIESEL FUEL
Common Name:	GENERATOR
Case Number:	68476-34-6

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0201110
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2019-02-27T02:33:09.000
Chemical Name:	REGULAR UNLEADED
Common Name:	UNDERGROUND TANK 114739 T004
Case Number:	8006-61-9

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HCHEM-0277984
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2020-12-02T01:45:38.000
Chemical Name:	DIESEL FUEL
Common Name:	GENERATOR
Case Number:	68476-34-6

Record ID:	DEH2002-HUPFP-114739
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HCHEM-0277985
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2020-12-02T01:45:38.000
Chemical Name:	REGULAR UNLEADED
Common Name:	UNDERGROUND TANK 114739 T004
Case Number:	8006-61-9

Name:	SD CNTY GEN SVCS FLEET FUEL
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	114739
Business Type:	6HK23
EPA Id Number:	CAD981694912
APN:	166-150-53-00
Last HMMD Inspection:	12/27/2011
Facility Telephone:	619-921-7874
Permit Status:	OPEN
Permit Expiration:	03/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	COUNTY OF SAN DIEGO
Facility Mailing Address:	5555 OVERLAND AV MS 019 BLDG #7
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92123-1219
UST Owner:	COUNTY OF SAN DIEGO/FLEET OPER
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Inventory Active Permits (not SQG Medical):

Permit Number:	114739
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	GENERATOR
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	114739
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 114739 T004
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	114739
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information:	NON-RCRA HAZARDOUS WASTE LIQUID SB989 TEST WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/27/2007
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/27/2007
Violation Code:	6HV3152
Violation:	ALL MAINT/MONITOR RECORDS NOT AVAILABLE
Violation Citation:	All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)
Activity:	ACTIVE

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/27/2007
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/27/2007
Violation Code:	6HV1014
Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3257
Violation:	2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation:	Secondary containment system components not liquid free. 2631(d)(4)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3192
Violation:	NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation:	Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3411
Violation:	LLD NOT INSTALLED/NOT FUNCTIONAL
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):Line leak detector is not installed, not functional, or not tested. 2636(f)(2), 25284.1(a)(4)(C), 2641(j)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV1013
Violation:	HMBP NOT AVAILABLE FOR REVIEW
Violation Citation:	Copy of HMBP not onsite for inspector’s review. 25505(e)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV1009

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3104
Violation:	FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation:	CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3106
Violation:	NO OWNER/OPERATOR AGREEMENT
Violation Citation:	Owner/operator agreement not available/complete/submitted to HMD. 25284(a)(3); 2620(b)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3107
Violation:	MONITORING PROCEDURES NOT AVAIL/TO HMD
Violation Citation:	Monitoring procedures not available/complete/submitted to HMD 2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3108
Violation:	UST ER RESPONSE PLAN NOT COMPLETE/AVAIL
Violation Citation:	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3109
Violation:	NO SCALED PLOT PLAN AVAIL/TO HMD
Violation Citation:	Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1) (C)

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3152
Violation:	ALL MAINT/MONITOR RECORDS NOT AVAILABLE
Violation Citation:	All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/29/2009
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/30/2008
Violation Code:	6HV3102
Violation:	OPER. PERMIT NOT CURRENT/ONSITE
Violation Citation:	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712(i); 68.1003
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/30/2008
Violation Code:	6HV3258
Violation:	SENSORS NOT AT LOW POINT OR ADEQUATELY
Violation Citation:	Sensors not placed adequately and/or at low point in sumps. 2641(a), 25291(a)(7)(C)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	12/30/2008
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE
Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	09/23/2003
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	09/23/2003
Violation Code:	6HV3260
Violation:	DISPENSER CONT NOT ADEQ. MONITORED
Violation Citation:	Dispenser containment not adequately monitored. 2636(f)(1) & (g)
Activity:	ACTIVE

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	09/23/2003
Violation Code:	6HV3262
Violation:	SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation:	Secondary containment piping obstructed preventing drainage to sump. 2632
Activity:	ACTIVE

Permit Number:	114739
Update Date:	11/02/2012
Inspection Date:	09/23/2003
Violation Code:	6HV3407
Violation:	PIPE INT. TEST DOESN'T DETECT.1 GPH @150
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING: OPTION 2-Piping integrity test does not detect 0.1-gph leak with ELLD or at 150% pressure 2636(f)(4)
Activity:	ACTIVE

UST:

UST Name:	UNDERGROUND TANK 114739 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	114739
Tank Type:	SINGLE WALL
Additional Id:	V-4
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1998-02-13 00:00:00
Year Installed:	1976-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	03
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/POS SHUTOFF LLD: SIR ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name:	UNDERGROUND TANK 114739 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	114739
Tank Type:	SINGLE WALL
Additional Id:	V-5
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1998-02-13 00:00:00
Year Installed:	1976-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Monitor Code:	03
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/POS SHUTOFF LLD: SIR ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR
UST Name:	UNDERGROUND TANK 114739 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	114739
Tank Type:	SINGLE WALL
Additional Id:	V-6
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1997-04-23 00:00:00
Year Installed:	1976-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 114739 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	114739
Tank Type:	DOUBLE WALL
Additional Id:	NT2033,RT3354,RT5452
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1998-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0 LLD; UDC W/ MECHANICAL FLOAT
Name:	SD CNTY VISTA DET FAC - MED SVCS
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	207078
Business Type:	6HK10
EPA Id Number:	Not reported
APN:	163-470-05-01
Last HMMD Inspection:	08/12/2011
Facility Telephone:	760-940-4492
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	SHERIFFS DEPT MED SERVICES DIVISION
Facility Mailing Address:	8525 GIBBS DR #303 MS: 0-317
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92123
UST Owner:	Not reported

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Handle Regulated Hazmat: N
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Y

Inventory Active Permits (SQG Medical):
Permit Number: 207078
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: MICROWAVE & SHRED
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 207078
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 541 PHOTOCHEM/PHOTOPROC WASTE
Other Information: FIXER WASTE/DENTAL DEPT.
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 207078
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: MICROWAVE & SHRED
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 07/25/2008
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE

Name:	SD CNTY VISTA DET FAC - MED SVCS
Address:	325 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	207078
Business Type:	6HK10
EPA Id Number:	Not reported
APN:	163-470-05-01
Last HMMD Inspection:	08/12/2011
Facility Telephone:	760-940-4492
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	SHERIFFS DEPT MED SERVICES DIVISION
Facility Mailing Address:	8525 GIBBS DR #303 MS: 0-317
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92123
UST Owner:	Not reported
Handle Regulated Hazmat:	N
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	N
Treat Haz Waste:	Not reported
Generate Medical Waste:	Y

Inventory Active Permits (SQG Medical):

Permit Number:	207078
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information:	MICROWAVE & SHRED
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	207078
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 541 PHOTOCHEM/PHOTOPROC WASTE
Other Information:	FIXER WASTE/DENTAL DEPT.
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	207078
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information:	MICROWAVE & SHRED
Material Waste:	Waste
Hazardous Categories 1:	Not reported

SD CNTY VISTA DET FAC - MED SVCS (Continued) **S106061243**

Hazardous Categories 2: Not reported

Violations Active Permits:

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 07/25/2008
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 207078
Update Date: 11/02/2012
Inspection Date: 08/12/2011
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

CERS:

Name: SHERIFF VISTA STATION, NORTH COUNTY REGIONAL CENTER
Address: 325 S. MELROSE DRIVE
City,State,Zip: VISTA, CA 92083
Site ID: 436181
CERS ID: T10000011511
CERS Description: Cleanup Program Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: EWAN MOFFAT - SAN DIEGO COUNTY LOP
Entity Title: Not reported
Affiliation Address: P.O. Box 129261
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

19
North
1/4-1/2
0.295 mi.
1557 ft.

Relative:
Lower

Actual:
302 ft.

BREEZE HILL RANCH CONSTRUCTION
333 S MELROSE DR
VISTA, CA 92083

LUST
SAN DIEGO CO. SAM
San Diego Co. HMMD
Cortese
SAN DIEGO CO LOP
CERS

S100732870
N/A

LUST:

Name:	BREEZE HILL RANCH CONSTRUCTION
Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 920836617
Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608184748
Global Id:	T0608184748
Latitude:	33.19085
Longitude:	-117.253991
Status:	Completed - Case Closed
Status Date:	12/15/2014
Case Worker:	NS
RB Case Number:	Not reported
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H23549-001
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	The site was the former location of Breeze Hill Ranch. According to Mr. Brent Jobe, representative of the former Breeze Hill Ranch, the subject UST was present when his family bought the property in 1953. The tank was reportedly pumped dry in 1974 and was not used since that date. In 1986, a 250-gallon gasoline UST was reportedly removed from the site without DEH or City of Vista Fire Department permits. Documentation of the location or condition of the UST when removed was not available in the documents reviewed. Documentation of the presence, location, or condition of pipeline(s) and dispenser was not available in the documents reviewed. Information whether or not the pipeline(s) and dispenser were removed was also not available. On August 3, 1989, MY Environmental, Inc. conducted remedial activities consisting of excavating the location of the former gasoline UST to an approximate depth of 12 feet below ground surface (bgs). Soil samples collected from the excavation floor and sidewalls contained total petroleum hydrocarbons (TPH) concentrations ranging from 3,400 to 4,900 milligrams per kilogram (mglkg). Additional excavation (assumed to be in the same general area, however background data is not clear) was conducted on August 10 and 14,1989 to approximate depths of 20 feet bgs. Approximately 125 cubic yards (cy) of soil was excavated and placed into a stockpile. The soil stockpile was sampled and it appears that based on the apparent absence of documentation pertaining to the soil disposition and the analytical results, it is possible that the excavated soil was reused on the site. The location(s) the soil may have been reused are not known, however, it is possible that some of it may have been used to backfill the excavation or possibly was spread out as part of grading the site for the planned construction. Soil samples collected from the floor of the excavation at depths of 17 and 19 feet bgs contained TPH concentrations of 2,100 and 1,600 mgikg, respectively. An additional soil sample collected from the excavation floor at a depth of 20 feet bgs did not contain detectable concentrations ofTPH. In August 1990, MV Environmental, Inc. constructed two groundwater monitoring wells

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

(MW-l and MW-2). Groundwater monitoring well MW-l was located on the eastern side of the UST excavation, and groundwater monitoring well MW-2 was located 33 feet east of MW-l. Wells were constructed to approximate depths of 30 feet bgs. Groundwater was present at depths of approximately 19 feet bgs (Table 2). A groundwater sample collected from well MW-l contained TPH as gasoline (THP-g) at a concentration of 160 milligrams per liter (mg/f) and benzene at a concentration of 35 micrograms per liter (Ilg/f). TPH-g and benzene were not detected in the groundwater sample from MW-2. In April and May 1991, MV Environmental, Inc. further assessed the UST release by advancing and sampling seven borings (B-1 through B-7) to approximate depths of 17 feet bgs. In addition, groundwater monitoring well MW-3, located south of the UST excavation, was constructed and sampled to an approximate depth of 30 feet bgs (Figure 3). Soil samples collected from boring B-3, located south of the UST excavation area, contained TPH-g concentrations ranging from below the detection limit to 14,000 mg/kg. Soil samples collected from boring B-6, located southeast of the UST excavation area, contained TPH-g concentrations ranging from below the detection limit to 3,606 mglkg. TPH was not detected in soil samples collected from borings B-1, B-2, B-4, B-5, B-7. At the time of the assessment (June 6,1991), groundwater was present at approximate depths of 15.5 to 17.5 feet bgs, a flow direction to the north, and hydraulic gradient of 0.0088 feet/feet (ftlft). A groundwater sample collected from well MW-3 contained a TPH concentration of 460 mg/f and a benzene concentration of 169 Ilglf. Groundwater monitoring wells MW-l and MW-2 were not sampled at that time. In July 1991, MV Environmental, Inc. conducted additional remedial excavation of soils south of the initial UST remedial excavation in the areas of borings B-3 and B-6 where elevated levels of TPH had been detected in soil. The excavation was approximately 11 feet wide, 13 feet long and 20 feet in depth. Approximately 170 to 200 cy of soil was estimated to have been excavated and stockpiled on the site. The soil stockpile was sampled and it appears that based on the apparent absence of documentation pertaining to the soil disposition and the analytical results, it is possible that the excavated soil was reused on the site. The location(s) the soil may have been reused are not known, however, it is possible that some of it may have been used to backfill the excavation or possibly was spread out as part of grading the site for the planned construction. Confirmation soil samples collected from the excavation floor and sidewalls contained TPH concentrations ranging from below the detection limit to 41 mg/kg. From September 1991 through April 1997, MV Environmental, Inc. conducted nine groundwater monitoring events of the three wells. TPH and benzene were detected in groundwater from monitoring well MW-3, and benzene was detected in groundwater from monitoring well MW-l. Over this time period, the reported groundwater flow direction varied. The groundwater gradient was reported to the south at a gradient of 0.0003 (July 19, 1991), to the northwest at a gradient of 0.0104 ft/ft (May 12, 1991, after the wells were resurveyed), to the east at a gradient of 0.0025 ft/ft (August 8, 1994), to the north at a gradient of 0.0063 ftlft (November 4, 1994), to the northnorthwest at a gradient of 0.0142 ftlft (February 22, 1995), and to the north at a gradient of 0.0114 ft/ft (May 12, 1995). On April 2, 1997, the last groundwater monitoring event of MW-l through MW-3, samples collected from the three wells did not contain detectable concentrations of TPH. The groundwater sample from monitoring well MW-3 contained a benzene concentration of 47.5 I-lglf

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

and benzene was not detected in the groundwater samples from the other two wells. Groundwater was present in the wells at approximate depths of 13.82 to 15.91 feet below top of casing (TOC) (Table 2). The groundwater flow direction was reported to the north-northwest with a hydraulic gradient of 0.0094 ftlft. In April and May of 1997, MV Environmental, Inc. conducted additional assessment by advancing eight borings (B-8 through B-14) using the direct push method and collecting soil and groundwater samples. Borings were located in areas outlying and generally north, south, and west of the two remedial excavations in the area of the former UST, except for one boring located within the former excavation (Figure 3). Soil samples collected from the borings did not contain detectable concentrations of TPH. Groundwater samples collected from the borings did not contain detectable concentrations of TPH or benzene, toluene, ethylbenzene, or xylenes with the exception of boring B-I0 (located 5 feet south of MW-3) which contained 17 I-lglf toluene, 51 I-lgi f ethylbenzene, and 212 I-lgi f xy lenes. On May 28, 1997, the upper 8 to 10 feet of soil was reportedly removed in the area surrounding the three monitoring wells in preparation for removal/abandonment of the wells. The excavation work was reportedly performed by Soltek, a grading contractor. On May 31, 1997, groundwater monitoring wells MW-l through MW-3 were reportedly abandoned and backfilled with bentonite slurry to the surface under DEH permit. Approximately 8 to 10 feet of fill soil was then reportedly placed in the area of the former groundwater monitoring wells for planned new construction. The South County Courthouse was constructed to the adjacent northwest of the former UST release area. Ninyo & Moore prepared and submitted to the DEH, a work plan dated July 27,2007 for the installation of one groundwater monitoring well (MW-4). The DEHissued a letter dated October 17,2007 granting regulatory approval of the work plan which proposed to install one groundwater monitoring well in the previous boring B-3 location (area with previous highest TPH concentration). In April 2008, the additional groundwater monitoring well (MW-4) was installed, developed, and sampled. Groundwater monitoring well MW-4 was placed approximately 15 feet southwest of boring B-3 due to thepresence of utilities at the planned location. Groundwater was present at 23.12 feet below TOC. Groundwater flow direction and gradient could not be established because there was only one well at the site. The most recent groundwater flow direction data available for the site (April 10, 1997) was reported to be to the north-northwest. In April 2008, a groundwater sample from MW-4 contained TPH-g at a concentration of 3,900 Ilg/.e, and TPH as diesel (TPH-d) at a concentration of 2,400 Ilg/.e. The lateral extent of groundwater contamination was not delineated. Ninyo & Moore prepared a report of groundwater monitoring well installation and sampling dated September 5, 2008, and submitted the report to the DEH for their review. The DEH issued a letter dating November 25, 2008, concurring with the recommendations in the Ninyo & Moore report. The letter stated "Based on the review of the report, DEH concurs with the recommendations presented in the report. However, DEH requires that an additional well (a total of three) be installed as opposed to the two wells proposed. Locations for the well installations include the areas around boring B-8, boring B-Il, and former groundwater monitoring well MW-l."

LUST:
Global Id: T0608184748
Contact Type: Local Agency Caseworker

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

Contact Name: NASSER SIONIT
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: nasser.sionit@sdcounty.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 12/04/2014
Action: Closure/No Further Action Letter

Global Id: T0608184748
Action Type: RESPONSE
Date: 10/13/2011
Action: Other Workplan - Regulator Responded

Global Id: T0608184748
Action Type: RESPONSE
Date: 01/13/2013
Action: Site Assessment Report - Regulator Responded

Global Id: T0608184748
Action Type: RESPONSE
Date: 01/31/2013
Action: Site Assessment Report - Regulator Responded

Global Id: T0608184748
Action Type: RESPONSE
Date: 08/12/2013
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 11/10/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 05/22/2013
Action: Staff Letter

Global Id: T0608184748
Action Type: Other
Date: 08/03/1989
Action: Leak Began

Global Id: T0608184748
Action Type: Other
Date: 08/03/1989
Action: Leak Discovery

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

Global Id: T0608184748
Action Type: Other
Date: 10/18/1990
Action: Leak Stopped

Global Id: T0608184748
Action Type: Other
Date: 10/18/1990
Action: Leak Reported

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 05/31/2001
Action: Notice of Responsibility

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 05/15/2012
Action: Letter - Notice

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 11/05/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 12/03/2013
Action: Letter - Notice

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 07/14/2009
Action: Letter - Notice

Global Id: T0608184748
Action Type: ENFORCEMENT
Date: 02/10/2014
Action: Letter - Notice

LUST:
Global Id: T0608184748
Status: Open - Case Begin Date
Status Date: 08/03/1989

Global Id: T0608184748
Status: Open - Site Assessment
Status Date: 08/08/1994

Global Id: T0608184748
Status: Completed - Case Closed
Status Date: 12/15/2014

SAN DIEGO CO. SAM:
Name: BREEZE HILL RANCH CONSTRUCTION

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 920836617
Case Number:	H23549-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Preliminary Assessment
Date:	8/8/1994
Date Began:	8/3/1989

HMMD SAN DIEGO:

Name:	BREEZE HILL RANCH CONSTRUCTION
Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Permit Number:	123549
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	166-150-60-00
Last HMMD Inspection:	Not reported
Facility Telephone:	858-480-9789
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	BREEZE HILL RANCH CONSTRUCTION
Facility Mailing Address:	PO BOX 371
Facility Mailing City:	BONSALL
Facility Mailing State:	CA
Facility Mailing Zip:	92003-0371
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

CORTESE:

Name:	BREEZE HILL RANCH CONSTRUCTION
Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 920836617
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608184748
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported

BREEZE HILL RANCH CONSTRUCTION (Continued) **S100732870**

Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

SAN DIEGO CO LOP:

Name:	BREEZE HILL RANCH CONSTRUCTION
Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 92083
Record ID:	DEH1990-LSAM-H23549-001
Record Status:	Completed
Opened Date:	10/18/1990
Parcel Number:	166-150-55-00
Case Type:	LOP - Local Oversight Program
Historical Name:	BREEZE HILL RNCH CNST (COUNTY)
SWRCB Global ID:	T0608184748
Funding:	S - LOP State Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	10/18/1990
Census Tract:	197.01
Community:	Vista
Jurisdiction:	VISTA
Watershed Basin Number:	904.22
Water Purveyor:	CWA VISTA IRRIGATION
Fire Agency:	VISTA
Latitude:	33.1898159
Longitude:	-117.2569423
X MapCoord:	6253615.309
Y MapCoord:	2014174.409

CERS:

Name:	BREEZE HILL RANCH CONSTRUCTION
Address:	333 S MELROSE DR
City,State,Zip:	VISTA, CA 920836617
Site ID:	231687
CERS ID:	T0608184748
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	NASSER SIONIT - SAN DIEGO COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	P.O. Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

20
NNE
1/4-1/2
0.337 mi.
1780 ft.

FOOD 4 LESS #300
500 HACIENDA DR
VISTA, CA 92081

SWRCY **S113797636**
San Diego Co. HMMD **N/A**
HAZNET
HWTS

Relative:
Lower

Actual:
320 ft.

SWRCY:

Name:	PONCE RECYCLING
Address:	500 HACIENDA DR
City,State,Zip:	VISTA, CA 92081
Reg Id:	Not reported
Cert Id:	RC295708.001
Mailing Address:	5425 W 64th St
Mailing City:	Los Angeles
Mailing State:	CA
Mailing Zip Code:	90056
Website:	Not reported
Email:	poncerecycling@aol.com
Phone Number:	(323) 533-4862
Rural:	N
Operation Begin Date:	03/14/2020
Aluminium:	Not reported
Glass:	Not reported
Plastic:	Not reported
Bimetal:	Not reported
Hours of Operation:	Mon - Sun 9:00 am - 5:00 pm, Closed 1:00 pm - 1:30 pm
Organization ID:	Not reported
Organization Name:	Ponce Recycling Inc

HMMD SAN DIEGO:

Name:	FOOD 4 LESS #300
Address:	500 HACIENDA DR
City,State,Zip:	VISTA, CA 92081
Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000320481
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	7606305333
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	03/24/2020
Facility Owner:	Not reported
Facility Mailing Address:	P.O. Box 54143, Los Angeles, CA 90054
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Inspection Violation:

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Expired
Active Permit:	N

FOOD 4 LESS #300 (Continued) **S113797636**

Facility Id Number:	37-000-211224
Program Element:	Hazardous Waste Generator
Inspection Type:	Routine
Inspection Number:	5646702
Return To Compliance Date:	2017-05-22T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-03-01T05:56:49.000
Inspection Date:	2017-04-03T14:27:00.000
Violation Code:	HMD0138 Manifest signed by the TSDF not available for inspection. 22 CCR 66262.40(a)

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-211224
Program Element:	Hazardous Waste Generator
Inspection Type:	Routine
Inspection Number:	5646702
Return To Compliance Date:	2017-05-22T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-03-01T05:56:49.000
Inspection Date:	2017-04-03T14:27:00.000
Violation Code:	3030017 Failed to properly close hazardous waste container(s). (40 CFR 262.34(d)(2); 265.173.) 22 CCR 66262.34(d)(2)

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Expired
Active Permit:	N
Facility Id Number:	37-000-211224
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	5646702
Return To Compliance Date:	2017-05-05T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2021-03-01T05:56:49.000
Inspection Date:	2017-04-03T14:27:00.000
Violation Code:	HMD1005 Emergency contact not provided or current. HSC 25508.1(f)

Waste and Materials:

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0117893
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-07-27T12:18:03.000
Chemical Name:	Waste Bleach
Common Name:	Waste Bleach

FOOD 4 LESS #300 (Continued) **S113797636**

Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0117894
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:18:03.000
Chemical Name: Waste Corrosive Acid
Common Name: Waste Corrosive Acid
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0117895
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:18:03.000
Chemical Name: Waste Corrosive Bases
Common Name: Waste Corrosive Bases
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0117896
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:18:03.000
Chemical Name: Waste Flammable Liquids
Common Name: Waste Flammable Liquids
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0117897
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-07-27T12:18:03.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0137654
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-02-27T02:34:19.000
Chemical Name: Waste Bleach
Common Name: Waste Bleach
Case Number: Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0137655
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-02-27T02:34:19.000
Chemical Name: Waste Corrosive Acid
Common Name: Waste Corrosive Acid
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0137656
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-02-27T02:34:19.000
Chemical Name: Waste Corrosive Bases
Common Name: Waste Corrosive Bases
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0137657
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-02-27T02:34:19.000
Chemical Name: Waste Flammable Liquids
Common Name: Waste Flammable Liquids
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HWAST-0137658
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-02-27T02:34:19.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0150900
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-02-20T02:40:31.000
Chemical Name: Waste Corrosive Acid
Common Name: Waste Corrosive Acid
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed

FOOD 4 LESS #300 (Continued) **S113797636**

Active Permit: Y
Child Record Id: DEH2018-HWAST-0150901
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-02-20T02:40:31.000
Chemical Name: Waste Aerosols
Common Name: Waste Aerosols
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0150902
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-02-20T02:40:31.000
Chemical Name: Waste Flammables
Common Name: Waste Flammables
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199258
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Flammables
Common Name: Waste Flammable
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199259
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Aerosols
Common Name: Waste Aerosols
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199260
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Corrosive Acid
Common Name: Waste Corrosive Acid
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199261

FOOD 4 LESS #300 (Continued) **S113797636**

Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Bleach
Common Name: Waste Bleach
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HCHEM-0215827
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Refrigerant R407A
Common Name: R-407A
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HCHEM-0215828
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Refrigerant R407C
Common Name: R-407C
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186080
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Corrosive Bases
Common Name: Waste Corrosive Bases
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186081
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Flammables
Common Name: Waste Flammable
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186082
Trade Secret: N
Hazardous Material Type: Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Medical Waste - Sharps
Common Name: Medical Waste - Sharps
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186083
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Aerosols
Common Name: Waste Aerosols
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186084
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Corrosive Acid
Common Name: Waste Corrosive Acid
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186085
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Bleach
Common Name: Waste Bleach
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186086
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186087
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Variable

FOOD 4 LESS #300 (Continued) **S113797636**

Common Name: Variable
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0186088
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-04-04T01:44:22.000
Chemical Name: Waste Pharmaceuticals not P-listed
Common Name: Waste Pharmaceuticals not P-listed
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HCHEM-0229034
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Refrigerant R407A
Common Name: R-407A
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HCHEM-0229035
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Refrigerant R407C
Common Name: R-407C
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199257
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Corrosive Bases
Common Name: Waste Corrosive Bases
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2019-HWAST-0199262
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-02-29T01:34:36.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0122187
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2017-02-22T02:35:24.000
Chemical Name:	Lead Acid Batteries
Common Name:	Lead Acid Batteries
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0102232
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-02-22T02:35:24.000
Chemical Name:	Waste Bleach
Common Name:	Waste Bleach
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0102233
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-02-22T02:35:24.000
Chemical Name:	Waste Corrosive Acid
Common Name:	Waste Corrosive Acid
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0102234
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-02-22T02:35:24.000
Chemical Name:	Waste Corrosive Bases
Common Name:	Waste Corrosive Bases
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0102235
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-02-22T02:35:24.000
Chemical Name:	Waste Flammable Liquids
Common Name:	Waste Flammable Liquids
Case Number:	Not reported

Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed

FOOD 4 LESS #300 (Continued) **S113797636**

Active Permit: Y
Child Record Id: DEH2016-HWAST-0102236
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2017-02-22T02:35:24.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HCHEM-0256455
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2020-03-24T05:41:10.000
Chemical Name: Refrigerant R407A
Common Name: R-407A
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0226959
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-03-24T05:41:10.000
Chemical Name: Waste Toxics
Common Name: Waste Toxics
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0226960
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-03-24T05:41:10.000
Chemical Name: Medical Waste - Sharps
Common Name: Medical Waste - Sharps
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0226961
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2020-03-24T05:41:10.000
Chemical Name: Waste Bleach
Common Name: Waste Bleach
Case Number: Not reported

Record ID: DEH2009-HUPFP-211224
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0226964

FOOD 4 LESS #300 (Continued) **S113797636**

Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-03-24T05:41:10.000
Chemical Name:	Waste Aerosols
Common Name:	Waste Aerosols
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0226965
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-03-24T05:41:10.000
Chemical Name:	Waste Flammables
Common Name:	Waste Flammable
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0226966
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-03-24T05:41:10.000
Chemical Name:	Waste Pharmaceuticals not P-listed
Common Name:	Waste Pharmaceuticals not P-listed
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0150896
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-02-20T02:40:31.000
Chemical Name:	Waste Toxics
Common Name:	Waste Toxics
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0150897
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-02-20T02:40:31.000
Chemical Name:	Waste P-listed
Common Name:	Waste P-listed
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0150898
Trade Secret:	N
Hazardous Material Type:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Last Updated:	2019-02-20T02:40:31.000
Chemical Name:	Waste Bleach
Common Name:	Waste Bleach
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HWAST-0150899
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2019-02-20T02:40:31.000
Chemical Name:	Waste Corrosive Bases
Common Name:	Waste Corrosive Bases
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0226962
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-03-24T05:41:10.000
Chemical Name:	Waste Corrosive Bases
Common Name:	Waste Corrosive Bases
Case Number:	Not reported
Record ID:	DEH2009-HUPFP-211224
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2020-HWAST-0226963
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2020-03-24T05:41:10.000
Chemical Name:	Waste Corrosive Acid
Common Name:	Waste Corrosive Acid
Case Number:	Not reported

HAZNET:

Name:	FOOD 4 LESS #300
Address:	500 HACIENDA DR
Address 2:	Not reported
City,State,Zip:	VISTA, CA 900540000
Contact:	MATTHEW EATON
Telephone:	3108844016
Mailing Name:	Not reported
Mailing Address:	P.O. BOX 54143
Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	561 - Detergent waste chemicals
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.04950

FOOD 4 LESS #300 (Continued) **S113797636**

Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.00150
Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02250
Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.01050
Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.01400
Year:	2019
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	281 - Adhesives
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.03600
Year:	2018
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	561 - Detergent waste chemicals
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.08050
Year:	2018
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.00100
Year:	2018

FOOD 4 LESS #300 (Continued) **S113797636**

Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.02300
Year:	2018
Gepaid:	CAL000320481
TSD EPA ID:	NVT330010000
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.00050

Click this hyperlink while viewing on your computer to access
33 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2014
Gen EPA ID:	CAL000320481
Shipment Date:	20141015
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141015
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432

FOOD 4 LESS #300 (Continued) **S113797636**

Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0855
Waste Quantity:	171
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141015
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1095
Waste Quantity:	219
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141015
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001

FOOD 4 LESS #300 (Continued) **S113797636**

Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141015
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141015
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Shipment Date:	20141015
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2475
Waste Quantity:	495
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141015
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000869083PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140415
Creation Date:	6/18/2014 22:14:45
Receipt Date:	20140425
Manifest ID:	000741409PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880

FOOD 4 LESS #300 (Continued) **S113797636**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2715
Waste Quantity:	543
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140415
Creation Date:	6/18/2014 22:14:45
Receipt Date:	20140425
Manifest ID:	000741409PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000320481

Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003

FOOD 4 LESS #300 (Continued) **S113797636**

Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	281 - Adhesives
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0895
Waste Quantity:	179
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914

FOOD 4 LESS #300 (Continued) **S113797636**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H110 - Not reported
Quantity Tons:	0.013
Waste Quantity:	26
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	D010
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	D005
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U154
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

FOOD 4 LESS #300 (Continued) **S113797636**

Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	U002
Additional Code 2:	D035
Additional Code 3:	D018
Additional Code 4:	D001
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000320481
Shipment Date:	20110907
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907

FOOD 4 LESS #300 (Continued) **S113797636**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110907
Creation Date:	7/19/2012 22:00:08
Receipt Date:	20110912
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110907
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	7/19/2012 22:00:08
Receipt Date:	20110912
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	7/19/2012 22:00:08
Receipt Date:	20110912
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site

FOOD 4 LESS #300 (Continued) **S113797636**

Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110907
Creation Date:	7/19/2012 22:00:08
Receipt Date:	20110912
Manifest ID:	000124525MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000320481
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	281 - Adhesives
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0895
Waste Quantity:	179
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
Quantity Unit:	P
Additional Code 1:	D010
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	D005
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002

FOOD 4 LESS #300 (Continued) **S113797636**

Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H110 - Not reported
Quantity Tons:	0.013
Waste Quantity:	26
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U154
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	U002
Additional Code 2:	D035
Additional Code 3:	D018
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4

FOOD 4 LESS #300 (Continued) **S113797636**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	2/9/2016 22:15:11
Receipt Date:	20151002
Manifest ID:	009104493JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	OKD000402396
Trans Name:	EQ OKLAHOMA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Additional Info:

Year:	2013
Gen EPA ID:	CAL000320481
Shipment Date:	20131204
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000652957PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0395
Waste Quantity:	79
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131204
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131217
Manifest ID:	000652957PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131204
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131217

FOOD 4 LESS #300 (Continued) **S113797636**

Manifest ID:	000652957PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20131204
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131217
Manifest ID:	000652957PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20131204
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131217
Manifest ID:	000652957PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.019
Waste Quantity:	38
Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605
Creation Date:	9/17/2013 22:15:12
Receipt Date:	20130620
Manifest ID:	000535746PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605
Creation Date:	9/17/2013 22:15:12
Receipt Date:	20130620
Manifest ID:	000535746PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0245
Waste Quantity:	49

FOOD 4 LESS #300 (Continued) **S113797636**

Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000535746PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000535746PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605

FOOD 4 LESS #300 (Continued) **S113797636**

Creation Date:	9/17/2013 22:15:12
Receipt Date:	20130620
Manifest ID:	000535746PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.077
Waste Quantity:	154
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000320481
Shipment Date:	20171116
Creation Date:	10/11/2018 18:31:48
Receipt Date:	20171129
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U154
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0315
Waste Quantity:	63
Quantity Unit:	P
Additional Code 1:	U002
Additional Code 2:	D035
Additional Code 3:	D018
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	10/11/2018 18:31:48
Receipt Date:	20171129
Manifest ID:	017602794JJK

FOOD 4 LESS #300 (Continued) **S113797636**

Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	10/11/2018 18:31:48
Receipt Date:	20171129
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	10/11/2018 18:31:48
Receipt Date:	20171129
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	D011
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D010
Additional Code 2:	D007
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.001
Waste Quantity:	2

FOOD 4 LESS #300 (Continued) **S113797636**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171116
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	017602794JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170524
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	016030333JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOOD 4 LESS #300 (Continued) **S113797636**

Shipment Date:	20170524
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20170612
Manifest ID:	016030333JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170524
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20170612
Manifest ID:	016030333JJK
Trans EPA ID:	MIK435642742
Trans Name:	EQ INDUSTRIAL SERVICES
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000320481

Shipment Date:	20120911
Creation Date:	11/13/2012 22:15:06
Receipt Date:	20120918

FOOD 4 LESS #300 (Continued) **S113797636**

Manifest ID:	000369750PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0165
Waste Quantity:	33
Quantity Unit:	P
Additional Code 1:	D005
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120911
Creation Date:	11/13/2012 22:15:06
Receipt Date:	20120918
Manifest ID:	000369750PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120911
Creation Date:	11/13/2012 22:15:06
Receipt Date:	20120918
Manifest ID:	000369750PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC

FOOD 4 LESS #300 (Continued) **S113797636**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120911
Creation Date:	11/13/2012 22:15:06
Receipt Date:	20120918
Manifest ID:	000369750PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.014
Waste Quantity:	28
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	FOOD 4 LESS #300
Address:	500 HACIENDA DR
Address 2:	Not reported
City,State,Zip:	VISTA, CA 920816604
EPA ID:	CAL000320481
Inactive Date:	Not reported
Create Date:	06/07/2007
Last Act Date:	07/31/2020
Mailing Name:	Not reported
Mailing Address:	P.O. BOX 54143
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS ANGELES, CA 900540000
Owner Name:	RALPHS GROCERY CO
Owner Address:	PO BOX 54143
Owner Address 2:	Not reported
Owner City,State,Zip:	LOS ANGELES, CA 900540000

FOOD 4 LESS #300 (Continued) **S113797636**

Contact Name: MATTHEW EATON
Contact Address: 1100 W. ARTESIA BLVD.
Contact Address 2: Not reported
City,State,Zip: COMPTON, CA 90220

NAICS:
EPA ID: CAL000320481
Create Date: 2009-12-03 12:41:18.000
NAICS Code: 45291
NAICS Description: Warehouse Clubs and Superstores
Issued EPA ID Date: 2007-06-07 13:09:53.91000
Inactive Date: Not reported
Facility Name: FOOD 4 LESS #300
Facility Address: 500 HACIENDA DR
Facility Address 2: Not reported
Facility City: VISTA
Facility County: Not reported
Facility State: CA
Facility Zip: 920816604

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21 **NORTH COUNTY REGIONAL CEN** **HIST CORTESE** **S103652897**
NNW **325 MELROSE** **N/A**
1/4-1/2 **VISTA, CA**
0.360 mi.
1899 ft.

Relative:
Lower

Actual:
331 ft.

HIST CORTESE:
edr_fname: NORTH COUNTY REGIONAL CEN
edr_fadd1: 325 MELROSE
City,State,Zip: VISTA, CA
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3618

D22 **MELROSE VALERO** **SAN DIEGO CO. SAM** **U003789214**
North **210 S MELROSE DR** **UST** **N/A**
1/4-1/2 **VISTA, CA 92081** **SWEEPS UST**
0.379 mi. **Cortese**
2002 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
301 ft.

SAN DIEGO CO. SAM:
Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 920836616
Case Number: H05275-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Drinking Water Aquifer Impacted
Facility Status: Remedial Investigation
Date: 4/3/1990
Date Began: 5/3/1988

UST:
Name: MELROSE VALERO

MELROSE VALERO (Continued) **U003789214**

Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Facility ID: 37-000-215896
Permitting Agency: San Diego County Department of Environmental Health
Latitude: 33.19349
Longitude: -117.25312

Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Facility ID: H05275
Permitting Agency: SAN DIEGO COUNTY
Latitude: 33.1947429
Longitude: -117.2517646

SWEEPS UST:
Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City: VISTA
Status: Active
Comp Number: 5275
Number: 9
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005275-000001
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City: VISTA
Status: Active
Comp Number: 5275
Number: 9
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005275-000002
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: MELROSE TEXACO

MELROSE VALERO (Continued) **U003789214**

Address: 210 S MELROSE DR
City: VISTA
Status: Active
Comp Number: 5275
Number: 9
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005275-000003
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City: VISTA
Status: Active
Comp Number: 5275
Number: 9
Board Of Equalization: 44-000217
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005275-000004
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: Not reported

CORTESE:
Name: MELROSE TEXACO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 920836616
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607300068
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported

MELROSE VALERO (Continued) **U003789214**

Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

D23 **MELROSE VALERO** **LUST** **U001572455**
North **210 S MELROSE DR** **San Diego Co. HMMD** **N/A**
1/4-1/2 **VISTA, CA 92081** **HIST UST**
0.379 mi. **CERS**
2002 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

Actual:
301 ft.

LUST:

Name:	MELROSE TEXACO
Address:	210 S MELROSE DR
City,State,Zip:	VISTA, CA 920836616
Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300068
Global Id:	T0607300068
Latitude:	33.1935316506733
Longitude:	-117.253341499965
Status:	Completed - Case Closed
Status Date:	10/29/2013
Case Worker:	JS
RB Case Number:	9UT1055
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H05275-001
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Refer to "Site Maps/Documents" tab for Closure Summary/Letter

LUST:

Global Id:	T0607300068
Contact Type:	Local Agency Caseworker
Contact Name:	JON SENAHA
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	jon.senaha@sdcounty.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607300068
Action Type:	RESPONSE
Date:	04/11/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0607300068
Action Type:	RESPONSE
Date:	04/26/2011
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607300068
Action Type:	RESPONSE

MELROSE VALERO (Continued) **U001572455**

Date: 10/18/2011
Action: Monitoring Report - Quarterly

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 01/28/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 03/24/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 12/22/2010
Action: Staff Letter

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 03/18/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300068
Action Type: RESPONSE
Date: 05/30/2013
Action: Correspondence

Global Id: T0607300068
Action Type: RESPONSE
Date: 07/08/2013
Action: Correspondence

Global Id: T0607300068
Action Type: RESPONSE
Date: 10/01/2012
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0607300068
Action Type: RESPONSE
Date: 01/30/2013
Action: Other Report / Document - Regulator Responded

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 07/21/1988
Action: Notice of Responsibility

Global Id: T0607300068
Action Type: Other
Date: 05/03/1988
Action: Leak Began

Global Id: T0607300068
Action Type: Other
Date: 05/03/1988
Action: Leak Discovery

MELROSE VALERO (Continued) **U001572455**

Global Id: T0607300068
Action Type: Other
Date: 05/03/1988
Action: Leak Stopped

Global Id: T0607300068
Action Type: Other
Date: 05/03/1988
Action: Leak Reported

Global Id: T0607300068
Action Type: RESPONSE
Date: 02/16/2010
Action: Other Workplan

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 01/18/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 09/10/2013
Action: Notice of Responsibility

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 06/21/2012
Action: Staff Letter

Global Id: T0607300068
Action Type: RESPONSE
Date: 03/31/2009
Action: CAP/RAP - Other Report

Global Id: T0607300068
Action Type: RESPONSE
Date: 04/29/2009
Action: Monitoring Report - Quarterly

Global Id: T0607300068
Action Type: RESPONSE
Date: 07/29/2009
Action: Monitoring Report - Quarterly

Global Id: T0607300068
Action Type: RESPONSE
Date: 07/30/2009
Action: CAP/RAP - Other Report

Global Id: T0607300068
Action Type: RESPONSE
Date: 01/26/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607300068
Action Type: ENFORCEMENT

MELROSE VALERO (Continued) **U001572455**

Date: 09/25/2013
Action: Notification - Preclosure

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 04/11/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300068
Action Type: RESPONSE
Date: 07/23/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607300068
Action Type: RESPONSE
Date: 08/11/2010
Action: Site Assessment Report

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 01/30/2009
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 09/10/2013
Action: Notification - Preclosure

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 09/10/2013
Action: Staff Letter

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 10/29/2013
Action: Closure/No Further Action Letter

Global Id: T0607300068
Action Type: ENFORCEMENT
Date: 07/14/2009
Action: Letter - Notice

LUST:
Global Id: T0607300068
Status: Open - Case Begin Date
Status Date: 05/03/1988

Global Id: T0607300068
Status: Open - Remediation
Status Date: 04/03/1990

Global Id: T0607300068
Status: Open - Site Assessment
Status Date: 07/07/2009

Global Id: T0607300068

MELROSE VALERO (Continued) **U001572455**

Status: Open - Eligible for Closure
Status Date: 07/11/2013

Global Id: T0607300068
Status: Completed - Case Closed
Status Date: 10/29/2013

HMMD SAN DIEGO:
Name: MELROSE VALERO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: Not reported
Business Type: Not reported
EPA Id Number: CAL000340265
APN: Not reported
Last HMMD Inspection: Not reported
Facility Telephone: 760-940-0601
Permit Status: Permit Renewed
Permit Expiration: Not reported
Date Last Updated: 01/29/2021
Facility Owner: Not reported
Facility Mailing Address: 210 S MELROSE DR, VISTA, CA 92081
Facility Mailing City: Not reported
Facility Mailing State: Not reported
Facility Mailing Zip: Not reported
UST Owner: Y
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: N
Generate Medical Waste: Not reported

Inspection Violation:
Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-215896
Program Element: Underground Storage Tank
Inspection Type: Routine
Inspection Number: 6589172
Return To Compliance Date: Not reported
Nov: Not reported
Violation Classification: Not reported
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2021-01-29T01:05:14.000
Inspection Date: 2021-01-28T15:51:13.000
Violation Code: 2030012 Failure to comply with one or more of the following: Provide initial training before the individual performs the duties of a facility employee. Train facility employees in the proper operation and maintenance of the underground storage tank system at least once every 12 months. Have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO). 23 CCR 2715(c), 2715(c)(1), 2715(c)(2)

MELROSE VALERO (Continued) **U001572455**

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	6078361
Return To Compliance Date:	2019-01-30T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	19221
Container/Tank Id:	Not reported
Last Update:	2021-01-29T01:05:14.000
Inspection Date:	2019-01-30T15:33:00.000
Violation Code:	2030018 (TCR 9d) Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at dispenser when a leak is detected. 23 CCR 2636(f)(1)

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	6078361
Return To Compliance Date:	2019-02-01T00:00:00.000
Nov:	No
Violation Classification:	Not reported
Underground Storage Tank Id:	19220
Container/Tank Id:	Not reported
Last Update:	2021-01-29T01:05:14.000
Inspection Date:	2019-01-30T15:33:00.000
Violation Code:	2030013 (TCR 12) Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR, 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days. 23CCR 2716 (a-e)

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Program Element:	Underground Storage Tank
Inspection Type:	Routine

MELROSE VALERO (Continued) **U001572455**

Inspection Number:	6078361
Return To Compliance Date:	2019-01-30T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	19220
Container/Tank Id:	Not reported
Last Update:	2021-01-29T01:05:14.000
Inspection Date:	2019-01-30T15:33:00.000
Violation Code:	2030040 (TCR 9d) Failure to maintain secondarily contained piping to allow liquid in the event of a leak to drain into sump (i.e. failure to remove test boot, pipe swelling). 23 CCR 2630(d), 2641(a)

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Program Element:	Underground Storage Tank
Inspection Type:	Routine
Inspection Number:	4977969
Return To Compliance Date:	2014-02-10T00:00:00.000
Nov:	No
Violation Classification:	Not reported
Underground Storage Tank Id:	19221
Container/Tank Id:	Not reported
Last Update:	2021-01-29T01:05:14.000
Inspection Date:	2014-02-10T09:24:00.000
Violation Code:	2030025 Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs. 23 CCR 16 2636(f)(2).

UST DTL:

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Facility Type (Ust Facility):	Motor Vehicle Fueling
Tank Owner Name:	JANAN TOMA
Tankid:	19221
Tank Status:	Active
Date Ust Permanently Closed:	Not reported
Tank Use:	Motor Vehicle Fueling
Piping System Type:	Pressure
Last Updated:	2021-01-29T01:05:14.000
Tank Capacityin Gallons:	12000
Tank Contents:	Regular Unleaded
Type Of Tank:	Double Wall

Record ID:	DEH2011-HUPFP-215896
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-215896
Facility Type (Ust Facility):	Motor Vehicle Fueling
Tank Owner Name:	JANAN TOMA
Tankid:	19220
Tank Status:	Active

MELROSE VALERO (Continued) **U001572455**

Date Ust Permanently Closed: Not reported
Tank Use: Motor Vehicle Fueling
Piping System Type: Pressure
Last Updated: 2021-01-29T01:05:14.000
Tank Capacityin Gallons: 12000
Tank Contents: Premium Unleaded
Type Of Tank: Double Wall

Waste and Materials:

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0108011
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2017-09-09T02:32:12.000
Chemical Name: Gasoline
Common Name: Gasoline Super
Case Number: 8006-61-9

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0108012
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2017-09-09T02:32:12.000
Chemical Name: water containing Gasoline
Common Name: Gasoline-water mixture
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0108013
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2017-09-09T02:32:12.000
Chemical Name: Propane
Common Name: Liquefied Petroleum Gas (lpg)
Case Number: 74-98-6

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0108014
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2017-09-09T02:32:12.000
Chemical Name: Regular Unleaded Gasoline
Common Name: Regular Unleaded Gasoline
Case Number: 86290-81-5

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0202332

MELROSE VALERO (Continued) **U001572455**

Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2019-09-05T02:37:45.000
Chemical Name: Gasoline
Common Name: Gasoline Super
Case Number: 8006-61-9

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0202333
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2019-09-05T02:37:45.000
Chemical Name: water containing Gasoline
Common Name: Gasoline-water mixture
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0202334
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2019-09-05T02:37:45.000
Chemical Name: Regular Unleaded Gasoline
Common Name: Regular Unleaded Gasoline
Case Number: 86290-81-5

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0202335
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2019-09-05T02:37:45.000
Chemical Name: Propane
Common Name: Liquefied Petroleum Gas (lpg)
Case Number: 74-98-6

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0174393
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2019-09-05T02:37:45.000
Chemical Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Common Name: Waste Absorbent & Used Fuel Filters
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HWAST-0251415
Trade Secret: N
Hazardous Material Type: Not reported

MELROSE VALERO (Continued) **U001572455**

Last Updated: 2021-01-29T01:05:14.000
Chemical Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Common Name: Waste Absorbent & Used Fuel Filters
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HCHEM-0163546
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2018-09-06T02:32:13.000
Chemical Name: Regular Unleaded Gasoline
Common Name: Regular Unleaded Gasoline
Case Number: 86290-81-5

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HCHEM-0163547
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-09-06T02:32:13.000
Chemical Name: Propane
Common Name: Liquefied Petroleum Gas (lpg)
Case Number: 74-98-6

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HCHEM-0163548
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2018-09-06T02:32:13.000
Chemical Name: water containing Gasoline
Common Name: Gasoline-water mixture
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2017-HCHEM-0163549
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2018-09-06T02:32:13.000
Chemical Name: Gasoline
Common Name: Gasoline Super
Case Number: 8006-61-9

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HCHEM-0282935
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2021-01-29T01:05:14.000
Chemical Name: water containing Gasoline

MELROSE VALERO (Continued) **U001572455**

Common Name: Gasoline-water mixture
Case Number: Not reported

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HCHEM-0282936
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2021-01-29T01:05:14.000
Chemical Name: Unleaded Gasoline
Common Name: Unleaded Gasoline
Case Number: 86290-81-5

Record ID: DEH2011-HUPFP-215896
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2020-HCHEM-0282937
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2021-01-29T01:05:14.000
Chemical Name: Propane
Common Name: Liquefied Petroleum Gas (lpg)
Case Number: 74-98-6

Name: MELROSE VALERO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: 215896
Business Type: 6HK28
EPA Id Number: Not reported
APN: 164-230-39-00
Last HMMD Inspection: 02/13/2012
Facility Telephone: 760-940-0601
Permit Status: OPEN
Permit Expiration: 09/30/2013
Date Last Updated: 11/02/2012
Facility Owner: JANAN TOMA
Facility Mailing Address: 210 S MELROSE DR
Facility Mailing City: VISTA
Facility Mailing State: CA
Facility Mailing Zip: 92081
UST Owner: JANAN TOMA
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: PREMIUM UNLEADED
Other Information: UNDERGROUND TANK 105275 T006
Material Waste: Material

MELROSE VALERO (Continued) **U001572455**

Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE, COMPRESSED GAS.
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 105275 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information: FUEL SUMP WATER W/GAS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: UNDERGROUND STORAGE TANK T008
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: GASOLINE CONTAMINATED ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

UST:
UST Name: UNDERGROUND TANK 105275 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 215896
Tank Type: DOUBLE WALL
Additional Id: NT1762; RT2118,RT2945; RT 4562,RT4681
Capacity Gallons: 12000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED

MELROSE VALERO (Continued) **U001572455**

Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 105275 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 REGULAR UNLEADED; RT2118, RT2945; RT 4562,R
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 105275 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 DIESEL; RT2118, RT2945/AT5302
Capacity Gallons:	12000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	CLOSED
Remove Close Date:	2007-04-26 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 105275 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 WASTE OIL, RT2118, RT2945; RT 4562,RT4681
Capacity Gallons:	1000
UST Contents:	OTHER
Other Content Info:	WASTE OIL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	OTHER
Delivery System:	GRAVITY
Monitor Code:	21

MELROSE VALERO (Continued) **U001572455**

UST Monitor Method: DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

Name: MELROSE VALERO
Address: 210 S MELROSE DR
City,State,Zip: VISTA, CA 92081
Permit Number: 215896
Business Type: 6HK28
EPA Id Number: Not reported
APN: 164-230-39-00
Last HMMD Inspection: 02/13/2012
Facility Telephone: 760-940-0601
Permit Status: OPEN
Permit Expiration: 09/30/2013
Date Last Updated: 11/02/2012
Facility Owner: JANAN TOMA
Facility Mailing Address: 210 S MELROSE DR
Facility Mailing City: VISTA
Facility Mailing State: CA
Facility Mailing Zip: 92081
UST Owner: JANAN TOMA
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: PREMIUM UNLEADED
Other Information: UNDERGROUND TANK 105275 T006
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE, COMPRESSED GAS.
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 105275 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896

MELROSE VALERO (Continued) **U001572455**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information:	FUEL SUMP WATER W/GAS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	215896
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	UNDERGROUND STORAGE TANK T008
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	215896
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	GASOLINE CONTAMINATED ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

UST:

UST Name:	UNDERGROUND TANK 105275 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762; RT2118,RT2945; RT 4562,RT4681
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name:	UNDERGROUND TANK 105275 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 REGULAR UNLEADED; RT2118, RT2945; RT 4562,R
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE

MELROSE VALERO (Continued) **U001572455**

Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 105275 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 DIESEL; RT2118, RT2945/AT5302
Capacity Gallons:	12000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	CLOSED
Remove Close Date:	2007-04-26 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 105275 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 WASTE OIL, RT2118, RT2945; RT 4562,RT4681
Capacity Gallons:	1000
UST Contents:	OTHER
Other Content Info:	WASTE OIL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	OTHER
Delivery System:	GRAVITY
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL
Name:	MELROSE VALERO
Address:	210 S MELROSE DR
City,State,Zip:	VISTA, CA 92081
Permit Number:	215896
Business Type:	6HK28
EPA Id Number:	Not reported
APN:	164-230-39-00
Last HMMD Inspection:	02/13/2012
Facility Telephone:	760-940-0601
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	JANAN TOMA
Facility Mailing Address:	210 S MELROSE DR
Facility Mailing City:	VISTA
Facility Mailing State:	CA
Facility Mailing Zip:	92081
UST Owner:	JANAN TOMA

MELROSE VALERO (Continued) **U001572455**

Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: PREMIUM UNLEADED
Other Information: UNDERGROUND TANK 105275 T006
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE, COMPRESSED GAS.
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 105275 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information: FUEL SUMP WATER W/GAS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: UNDERGROUND STORAGE TANK T008
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: GASOLINE CONTAMINATED ABSORBENT

MELROSE VALERO (Continued) **U001572455**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

UST:
UST Name: UNDERGROUND TANK 105275 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 215896
Tank Type: DOUBLE WALL
Additional Id: NT1762; RT2118,RT2945; RT 4562,RT4681
Capacity Gallons: 12000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1994-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name: UNDERGROUND TANK 105275 T006
Last Update: 2012-11-02 14:17:38
Permit Number: 215896
Tank Type: DOUBLE WALL
Additional Id: NT1762 REGULAR UNLEADED; RT2118, RT2945; RT 4562,R
Capacity Gallons: 12000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1994-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name: UNDERGROUND TANK 105275 T007
Last Update: 2012-11-02 14:17:38
Permit Number: 215896
Tank Type: DOUBLE WALL
Additional Id: NT1762 DIESEL; RT2118, RT2945/AT5302
Capacity Gallons: 12000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: CLOSED
Remove Close Date: 2007-04-26 00:00:00
Year Installed: 1994-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name: UNDERGROUND TANK 105275 T008

MELROSE VALERO (Continued) **U001572455**

Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 WASTE OIL, RT2118, RT2945; RT 4562,RT4681
Capacity Gallons:	1000
UST Contents:	OTHER
Other Content Info:	WASTE OIL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	OTHER
Delivery System:	GRAVITY
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

Name:	MELROSE VALERO
Address:	210 S MELROSE DR
City,State,Zip:	VISTA, CA 92081
Permit Number:	215896
Business Type:	6HK28
EPA Id Number:	Not reported
APN:	164-230-39-00
Last HMMD Inspection:	02/13/2012
Facility Telephone:	760-940-0601
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	JANAN TOMA
Facility Mailing Address:	210 S MELROSE DR
Facility Mailing City:	VISTA
Facility Mailing State:	CA
Facility Mailing Zip:	92081
UST Owner:	JANAN TOMA
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	215896
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	PREMIUM UNLEADED
Other Information:	UNDERGROUND TANK 105275 T006
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	215896
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE, COMPRESSED GAS.
Other Information:	Not reported
Material Waste:	Material

MELROSE VALERO (Continued) **U001572455**

Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 215896
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 105275 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information: FUEL SUMP WATER W/GAS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: UNDERGROUND STORAGE TANK T008
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 215896
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: GASOLINE CONTAMINATED ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

UST:
UST Name: UNDERGROUND TANK 105275 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 215896
Tank Type: DOUBLE WALL
Additional Id: NT1762; RT2118,RT2945; RT 4562,RT4681
Capacity Gallons: 12000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1994-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

MELROSE VALERO (Continued) **U001572455**

UST Name:	UNDERGROUND TANK 105275 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 REGULAR UNLEADED; RT2118, RT2945; RT 4562,R
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name:	UNDERGROUND TANK 105275 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 DIESEL; RT2118, RT2945/AT5302
Capacity Gallons:	12000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	CLOSED
Remove Close Date:	2007-04-26 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name:	UNDERGROUND TANK 105275 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	215896
Tank Type:	DOUBLE WALL
Additional Id:	NT1762 WASTE OIL, RT2118, RT2945; RT 4562,RT4681
Capacity Gallons:	1000
UST Contents:	OTHER
Other Content Info:	WASTE OIL
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	OTHER
Delivery System:	GRAVITY
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

HIST UST:

Name:	EXXON SERVICE STATION
Address:	210 S MELROSE
City,State,Zip:	VISTA, CA 92083
File Number:	0002B24E

MELROSE VALERO (Continued) **U001572455**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B24E.pdf
Region:	STATE
Facility ID:	00000024019
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	BUDDY GUIDOTTI
Telephone:	6197244900
Owner Name:	EXXON COMPANY U.S.A.
Owner Address:	16945 NORTHCHASE BLVD.
Owner City,St,Zip:	HOUSTON, TX 77210
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	1967
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CERS:

Name:	MELROSE TEXACO
Address:	210 S MELROSE DR
City,State,Zip:	VISTA, CA 920836616
Site ID:	251031
CERS ID:	T0607300068
CERS Description:	Leaking Underground Storage Tank Cleanup Site

MELROSE VALERO (Continued) **U001572455**

Affiliation:
- Affiliation Type Desc: Local Agency Caseworker
- Entity Name: JON SENAHA - SAN DIEGO COUNTY LOP
- Entity Title: Not reported
- Affiliation Address: P.O. Box 129261
- Affiliation City: San Diego
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

24
South
1/4-1/2
0.478 mi.
2526 ft.

Relative:
Higher

Actual:
420 ft.

ALLISON X-RAY COMPANY
950 S MELROSE DR
VISTA, CA 92083

San Diego Co. HMMD
RCRA NonGen / NLR
FINDS
ECHO
HAZNET
HWP
CERS
HWTS

1000263253
CAD982512386

HMMD SAN DIEGO:
- Name: ALLISON X RAY COMPANY
- Address: 950 S MELROSE DR
- City,State,Zip: VISTA, CA 92083
- Permit Number: 122082
- Business Type: 6HK38
- EPA Id Number: CAD982512386
- APN: 161-080-80-00
- Last HMMD Inspection: 08/01/1997
- Facility Telephone: 619-726-6560
- Permit Status: INAC
- Permit Expiration: 08/01/1997
- Date Last Updated: 11/02/2012
- Facility Owner: MELFORD B ALLISON
- Facility Mailing Address: 950 S MELROSE DR
- Facility Mailing City: VISTA
- Facility Mailing State: CA
- Facility Mailing Zip: 92083-7404
- UST Owner: Not reported
- Handle Regulated Hazmat: Not reported
- Own Or Operate UST: Not reported
- Subject To APSA: Not reported
- Generate Haz Waste: Y
- Treat Haz Waste: Not reported
- Generate Medical Waste: Not reported

RCRA NonGen / NLR:
- Date Form Received by Agency: 1988-05-09 00:00:00.0
- Handler Name: ALLISON X-RAY COMPANY
- Handler Address: 950 S MELROSE DR
- Handler City,State,Zip: VISTA, CA 92083
- EPA ID: CAD982512386
- Contact Name: ENVIRONMENTAL MANAGER
- Contact Address: 950 S MELROSE DR
- Contact City,State,Zip: VISTA, CA 92083
- Contact Telephone: 619-726-6560

ALLISON X-RAY COMPANY (Continued) **1000263253**

Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	950 S MELROSE DR
Mailing City,State,Zip:	VISTA, CA 92083
Owner Name:	ALLISON MELFORD
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

ALLISON X-RAY COMPANY (Continued) **1000263253**

Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-09-17 14:00:08.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALLISON MELFORD
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1988-05-09 00:00:00.0
Handler Name: ALLISON X-RAY COMPANY	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

ALLISON X-RAY COMPANY (Continued) **1000263253**

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1996-01-22 00:00:00.0
Actual Return to Compliance Date: 1997-08-22 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 1996-01-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1996-01-22 00:00:00.0
Actual Return to Compliance Date: 1997-08-22 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 1996-01-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No

ALLISON X-RAY COMPANY (Continued) **1000263253**

Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	1996-01-22 00:00:00.0
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	1996-01-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported

ALLISON X-RAY COMPANY (Continued) **1000263253**

Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1996-01-22 00:00:00.0
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	1996-01-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	1996-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ALLISON X-RAY COMPANY (Continued) **1000263253**

Evaluation Date:	1996-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1997-08-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110002837985

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1000263253

ALLISON X-RAY COMPANY (Continued) **1000263253**

Registry ID: 110002837985
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002837985
Name: ALLISON X-RAY COMPANY
Address: 950 S MELROSE DR
City,State,Zip: VISTA, CA 92083

HAZNET:
Name: ALLISON X-RAY COMPANY
Address: 950 S MELROSE DR
Address 2: Not reported
City,State,Zip: VISTA, CA 920830000
Contact: PATSY ALLISON
Telephone: 6191266560
Mailing Name: Not reported
Mailing Address: 950 S MELROSE DR

Year: 1998
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: R01 - Recycler
Tons: 0.21

Year: 1997
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: R01 - Recycler
Tons: 0.035

Year: 1994
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 171 - Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: R01 - Recycler
Tons: 0.115

Year: 1994
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: R01 - Recycler
Tons: 0.039

Year: 1992
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 171 - Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: -
Tons: 0.04

Year: 1992
Gepaid: CAD982512386
TSD EPA ID: CAD981402522
CA Waste Code: 171 - Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: 01 -
Tons: 0.035

ALLISON X-RAY COMPANY (Continued) **1000263253**

Additional Info:

Year:	1997
Gen EPA ID:	CAD982512386
Shipment Date:	19970218
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970226
Manifest ID:	96640127
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD982512386
Shipment Date:	19940922
Creation Date:	10/17/1995 0:00:00
Receipt Date:	19940923
Manifest ID:	93685617
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	171 - Metal sludge (see 121
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.115
Waste Quantity:	230
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ALLISON X-RAY COMPANY (Continued) **1000263253**

Shipment Date:	19940922
Creation Date:	10/17/1995 0:00:00
Receipt Date:	19940923
Manifest ID:	93685617
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.039
Waste Quantity:	78
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD982512386

Shipment Date:	19980820
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980825
Manifest ID:	98581950
Trans EPA ID:	CAD982433575
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980820
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980825
Manifest ID:	98581950
Trans EPA ID:	CAD982433575

ALLISON X-RAY COMPANY (Continued) **1000263253**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981402522
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWP:

EPA ID:	CAD982512386
Name:	ALLISON X-RAY COMPANY
Address:	950 S MELROSE DR
Cleanup Status:	CLOSED
Latitude:	33.17905
Longitude:	-117.2529
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Senate District:	36
Assembly District:	76
Public Information Officer:	Not reported
Commercial Offsite Facility Types:	Not reported
Quarterly Update:	Not reported
Project Manager Lead:	Not reported
Project Manager:	Not reported
Permit Type:	Standardized
Permit Effective Date:	Not reported
Permit Expiration Date:	Not reported
Calenviroscreen Score:	26-30%
Total Planned Hours:	Not reported
Total Planned Amount:	Not reported
Total Actual Hours:	Not reported

Closure:

EPA ID:	CAD982512386
Facility Type:	Historical - Non-Operating
Facility Name:	ALLISON X-RAY COMPANY
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Facility Size:	Not reported
Facility Status:	CLOSED
Activity Type:	Closure Administrative
Final Date:	Not reported
Type:	STND

ALLISON X-RAY COMPANY (Continued) **1000263253**

Title Description: administrative closue due to legislation SB-2111 (copy of bill uploaded)
Due Date: Not reported
Comments: Due to SB02111 silver facilies were delisted and moved to a lower tier. See fact sheet.
Unit Names: Silver Recovery
Event Description: Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date: 01/01/1999

Alias:
EPA ID: CAD982512386
Facility Type: Historical - Non-Operating
Facility Name: ALLISON X-RAY COMPANY
Facility Status: CLOSED
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Alias Type: FRS
Alias: 110002837985

CERS:
Name: ALLISON X-RAY COMPANY
Address: 950 S MELROSE DR
City,State,Zip: VISTA, CA 920830000
Site ID: 233493
CERS ID: CAD982512386
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: MELFORD ALLISON
Entity Title: Not reported
Affiliation Address: 950 S MELROSE DR
Affiliation City: VISTA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 920837404
Affiliation Phone: 6197266560

Affiliation Type Desc: Facility Contact
Entity Name: PATSY ALLISON
Entity Title: Not reported
Affiliation Address: INACTIVE PER VQ99 - BMI
Affiliation City: VISTA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 920837404
Affiliation Phone: 6191266560

HWTS:
Name: ALLISON X-RAY COMPANY
Address: 950 S MELROSE DR
Address 2: Not reported
City,State,Zip: VISTA, CA 920830000

ALLISON X-RAY COMPANY (Continued) **1000263253**

EPA ID:	CAD982512386
Inactive Date:	06/30/1999
Create Date:	06/15/1989
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	950 S MELROSE DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	VISTA, CA 920837404
Owner Name:	MELFORD ALLISON
Owner Address:	950 S MELROSE DR
Owner Address 2:	Not reported
Owner City,State,Zip:	VISTA, CA 920837404
Contact Name:	PATSY ALLISON
Contact Address:	INACTIVE PER VQ99 - BMI
Contact Address 2:	Not reported
City,State,Zip:	VISTA, CA 920837404

NAICS:

EPA ID:	CAD982512386
Create Date:	2002-03-14 16:36:27.000
NAICS Code:	5414
NAICS Description:	Specialized Design Services
Issued EPA ID Date:	1989-06-15 00:00:00
Inactive Date:	1999-06-30 00:00:00
Facility Name:	ALLISON X-RAY COMPANY
Facility Address:	950 S MELROSE DR
Facility Address 2:	Not reported
Facility City:	VISTA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	920830000

25
NNW
1/2-1
0.790 mi.
4169 ft.

COPPER/IRON SCHOOL
COPPER DRIVE/IRON DRIVE
VISTA, CA 92083

ENVIROSTOR
SCH
CERS

S107736166
N/A

Relative:
Lower

Actual:
329 ft.

ENVIROSTOR:

Name:	COPPER/IRON SCHOOL
Address:	COPPER DRIVE/IRON DRIVE
City,State,Zip:	VISTA, CA 92083
Facility ID:	60000012
Status:	No Further Action
Status Date:	06/29/2007
Site Code:	404336
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	6.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	76
Senate:	36

COPPER/IRON SCHOOL (Continued) **S107736166**

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.19887
Longitude: -117.2570
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Chlordane DDD DDE DDT Lead
Confirmed COC: 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO
Potential Description: SOIL
Alias Name: VISTA USD-PROPOSED COPPER/IRON SCHOOL
Alias Type: Alternate Name
Alias Name: 404336
Alias Type: Project Code (Site Code)
Alias Name: 60000012
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
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: COPPER/IRON SCHOOL
Address: COPPER DRIVE/IRON DRIVE
City,State,Zip: VISTA, CA 92083
Facility ID: 60000012
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 6.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404336
Assembly: 76
Senate: 36
Special Program Status: Not reported
Status: No Further Action

COPPER/IRON SCHOOL (Continued) **S107736166**

Status Date:	06/29/2007
Restricted Use:	NO
Funding:	School District
Latitude:	33.19887
Longitude:	-117.2570
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Chlordane, DDD, DDE, DDT, Lead
Confirmed COC:	30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO
Potential Description:	SOIL
Alias Name:	VISTA USD-PROPOSED COPPER/IRON SCHOOL
Alias Type:	Alternate Name
Alias Name:	404336
Alias Type:	Project Code (Site Code)
Alias Name:	60000012
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
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CERS:

Name:	COPPER/IRON SCHOOL
Address:	COPPER DRIVE/IRON DRIVE
City,State,Zip:	VISTA, CA 92083
Site ID:	336383
CERS ID:	60000012
CERS Description:	School Investigation

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	SHAHIR HADDAD
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

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
VISTA	S105034165	EXXON SERVICE STATION 7-3270	210 MELROSE ST S	92083	LUST

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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
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: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/26/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
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: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: No Update Planned

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 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 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

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 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 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: 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 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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
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: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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

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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 08/23/2021
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: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

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

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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/19/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

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

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: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
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: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
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: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 08/16/2021
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: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
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: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
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: No Update Planned

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: No Update Planned

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: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

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: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
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: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
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: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
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: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
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

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/26/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

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: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
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: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
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: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
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: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
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: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
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: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
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: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
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: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
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: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
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: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/07/2021
Number of Days to Update: 79
Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 01/29/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
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: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

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: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

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: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/17/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
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: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/09/2021
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: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
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: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
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: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 10/19/2020
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

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: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
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: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
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: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/26/2021
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/02/2021
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: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
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: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/28/2020
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/22/2021
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

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: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

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: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
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: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
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: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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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

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

APNS 166-280-60, -61 AND -18
S MELROSE DRIVE/MATAGUAL DRIVE
VISTA, CA 92081

TARGET PROPERTY COORDINATES

Latitude (North):	33.187338 - 33° 11' 14.42''
Longitude (West):	117.253 - 117° 15' 10.80''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	476415.3
UTM Y (Meters):	3671892.2
Elevation:	352 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641318 SAN LUIS REY, CA
Version Date:	2012
East Map:	5641320 SAN MARCOS, 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).

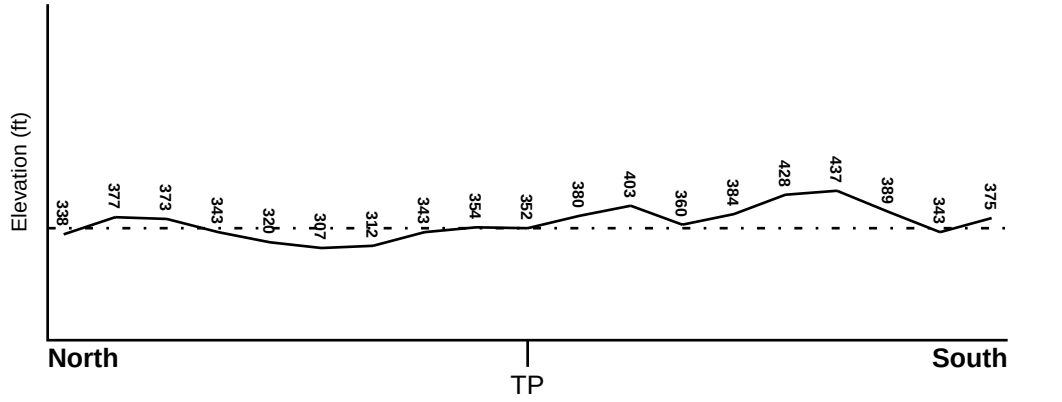
TOPOGRAPHIC INFORMATION

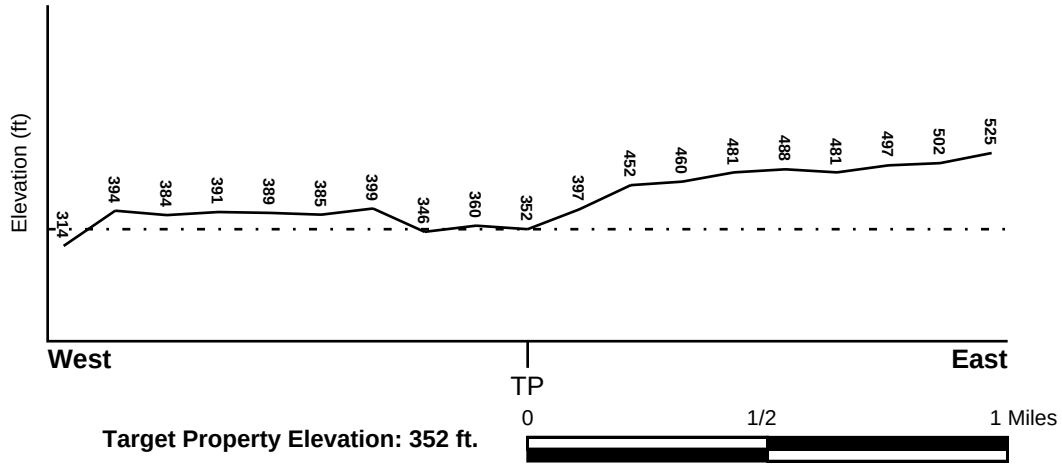
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 352 ft.

0 1/2 1 Miles

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
06073C0767G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06073C0759G	FEMA FIRM Flood data
06073C0778G	FEMA FIRM Flood data
06073C0786J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN LUIS REY	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
Not Reported		

* ©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

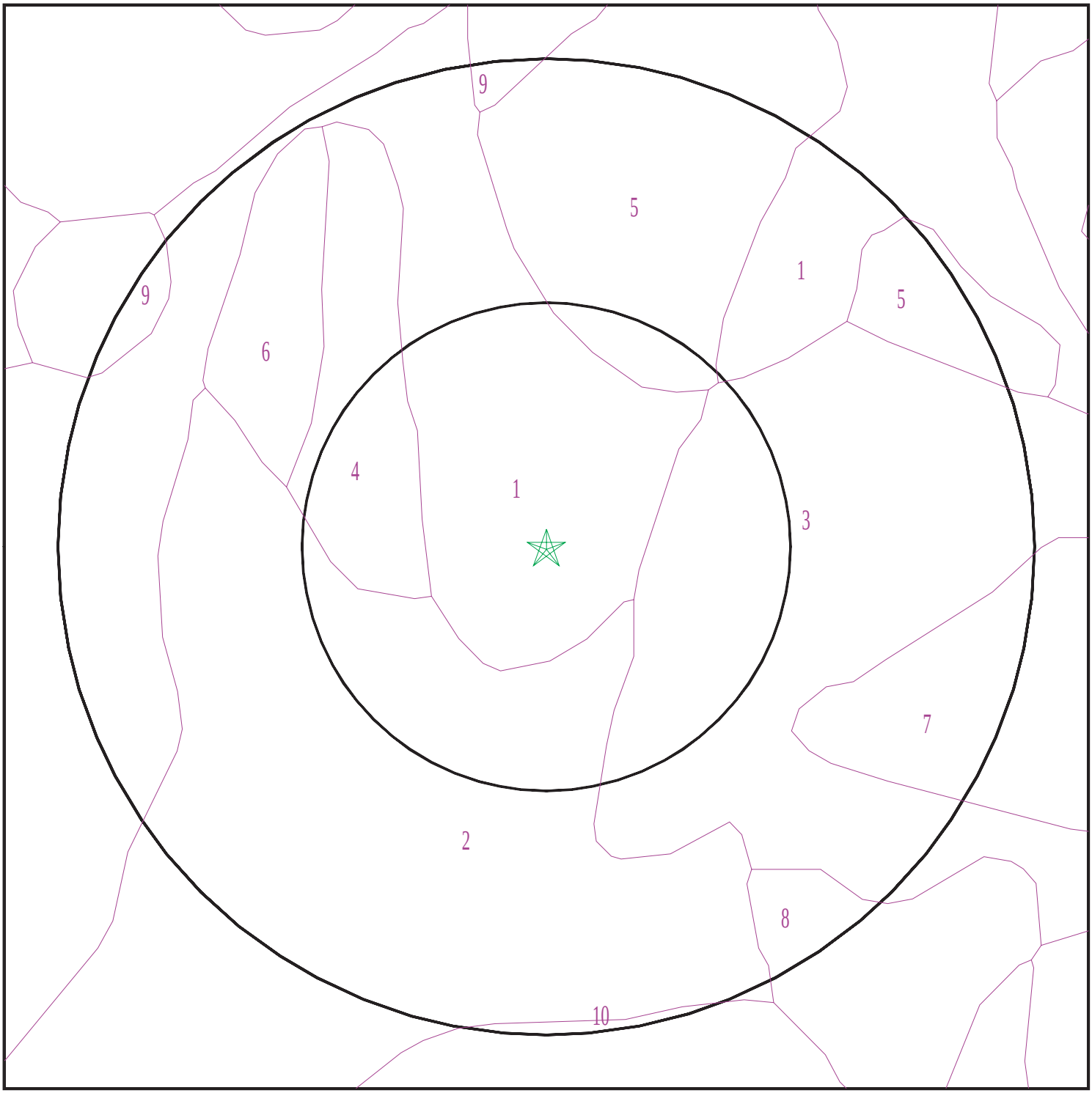
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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 - 6558122.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
LAT/LONG:	33.187338 / 117.253	INQUIRY #:	6558122.2s
		DATE:	June 29, 2021 7:06 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: PLACENTIA

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: Partially 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	9 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: 0.42 Min: 0.01	Max: 8.4 Min: 7.9
2	9 inches	31 inches	sandy clay	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: 0.42 Min: 0.01	Max: 8.4 Min: 7.9
3	31 inches	62 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: 0.42 Min: 0.01	Max: 8.4 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: BOSANKO

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: 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	5 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	22 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
4	27 inches	31 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: BOSANKO

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: 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	5 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	20 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	20 inches	25 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
4	25 inches	29 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: BONSALL

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	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
2	7 inches	24 inches	clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
3	24 inches	33 inches	clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
4	33 inches	44 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	44 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4

Soil Map ID: 5

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy 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: Moderate

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	1 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	1 inches	24 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	24 inches	27 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	27 inches	31 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: VISTA

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	29 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	29 inches	33 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 7

Soil Component Name: DIABLO

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: 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	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 8

Soil Component Name: STEEP GULLIED LAND

Soil Surface Texture: variable

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:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 9

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	11 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	27 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
5	46 inches	51 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 10

Soil Component Name: ALTAMONT

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: 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	20 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	20 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	29 inches	33 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

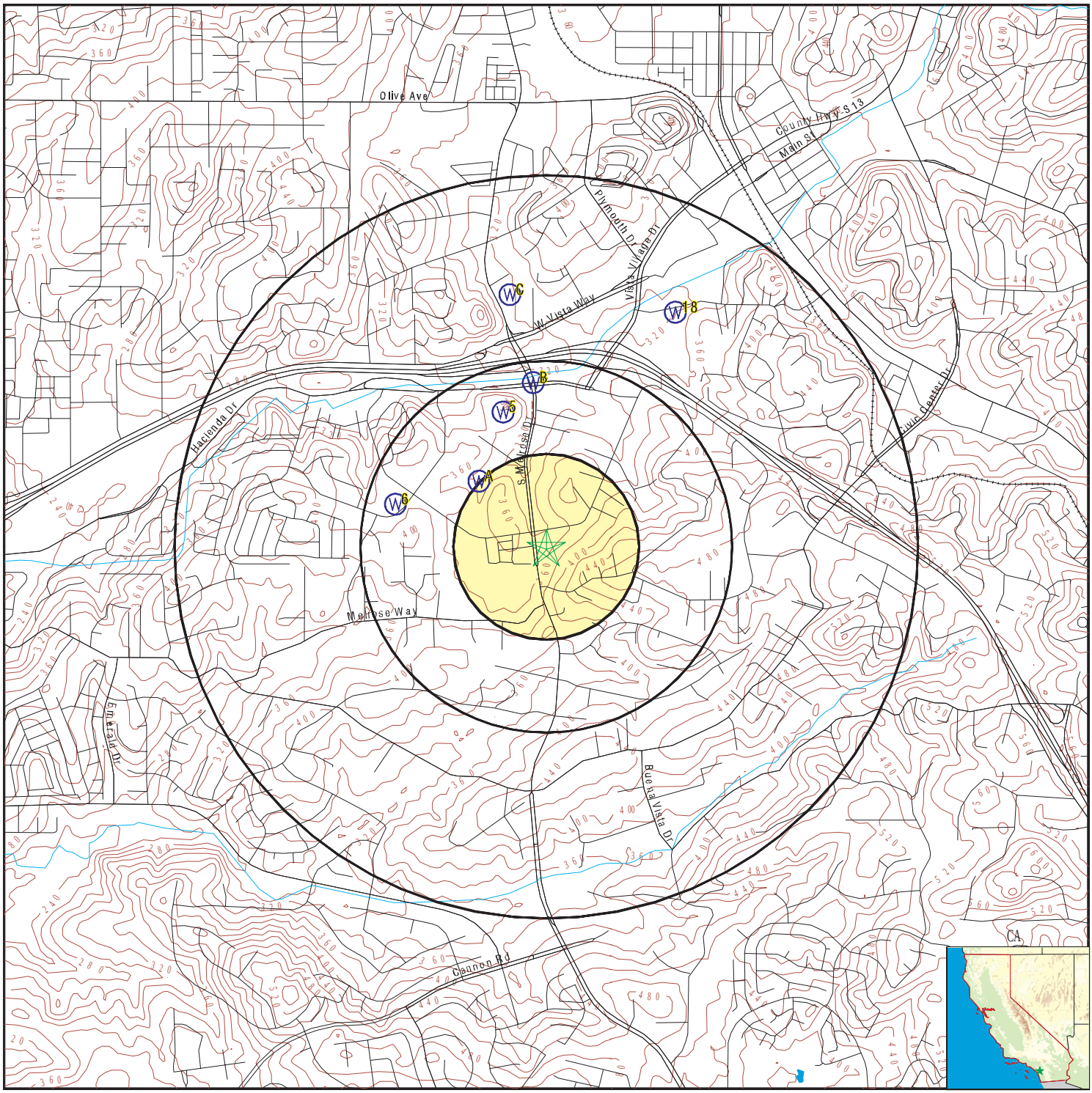
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAEDF0000031294	1/8 - 1/4 Mile NW
A2	CAEDF0000058075	1/4 - 1/2 Mile NW
A3	CAEDF0000035077	1/4 - 1/2 Mile NW
A4	CAEDF0000067510	1/4 - 1/2 Mile NW
5	CADWR0000030248	1/4 - 1/2 Mile NNW
6	CADWR0000022963	1/4 - 1/2 Mile WNW
B7	CAEDF0000064529	1/4 - 1/2 Mile North
B8	CAEDF0000134160	1/4 - 1/2 Mile North
C9	CAEDF0000111382	1/2 - 1 Mile North
C10	CAEDF0000109935	1/2 - 1 Mile North
C11	CAEDF0000083041	1/2 - 1 Mile North
C12	CAEDF0000110025	1/2 - 1 Mile North
C13	CAEDF0000069841	1/2 - 1 Mile North
C14	CAEDF0000104794	1/2 - 1 Mile North
C15	CAEDF0000051548	1/2 - 1 Mile North
C16	CAEDF0000058089	1/2 - 1 Mile North
C17	CAEDF0000068637	1/2 - 1 Mile North
18	CADWR0000037507	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 6558122.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- 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:	APNs 166-280-60, -61 and -18	CLIENT:	Geotek
ADDRESS:	S Melrose Drive/Matagual Drive Vista CA 92081	CONTACT:	Kyle Mchargue
		INQUIRY #:	6558122.2s
LAT/LONG:	33.187338 / 117.253	DATE:	June 29, 2021 7:06 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CAEDF0000031294**

Well ID:	T0608184748-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608184748&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608184748&assigned_name=MW-5		

A2
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000058075**

Well ID:	T0608184748-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608184748&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608184748&assigned_name=MW-4		

A3
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000035077**

Well ID:	T0608184748-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608184748&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608184748&assigned_name=MW-6		

A4
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000067510**

Well ID:	T0608184748-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608184748&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608184748&assigned_name=MW-7		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
NNW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000030248**

Well ID:	11S04W25C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	11S04W25C001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=11S04W25C001S&store_num=		
GeoTracker Data:	Not Reported		

6
WNW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000022963**

Well ID:	11S04W25E001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	11S04W25E001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=11S04W25E001S&store_num=		
GeoTracker Data:	Not Reported		

B7
North
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000064529**

Well ID:	T0607300068-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607300068&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607300068&assigned_name=MW-14		

B8
North
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000134160**

Well ID:	T0607300068-EA-13	Well Type:	MONITORING
Source:	EDF	Other Name:	EA-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607300068&assigned_name=EA-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607300068&assigned_name=EA-13		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C9
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000111382**

Well ID:	T0607302643-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-8		

C10
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000109935**

Well ID:	T0607302643-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-6		

C11
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000083041**

Well ID:	T0607302643-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-9		

C12
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000110025**

Well ID:	T0607302643-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-7		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000069841**

Well ID:	T0607302643-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-4		

C14
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000104794**

Well ID:	T0607302643-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-1		

C15
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000051548**

Well ID:	T0607302643-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-2		

C16
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000058089**

Well ID:	T0607302643-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C17
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000068637**

Well ID:	T0607302643-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607302643&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607302643&assigned_name=MW-5		

18
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000037507**

Well ID:	11S04W24R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	11S04W24R001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=11S04W24R001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92081	3	0

Federal EPA Radon Zone for SAN DIEGO 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 SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
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.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

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.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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 F

PROJECT TEAM QUALIFICATIONS

GEOTEK

Edward H. LaMont, CEG, PG

Branch Manager

Areas of Expertise

Geotechnical Field Investigations
Grading and Earthwork Construction
Industry Standard of Care
Hillside, Liquefaction, Seismic Hazard, Fault Analyses and Forensic Studies.

Education

Bachelor of Science in Geology, Cal State University, Northridge

Registrations

Registered Geologist, PG 6025
Certified Engineering Geologist, CEG 1892

Certifications

OSHA 40-Hr HAZWOPER Training
OSHA 8-Hour Refresher
First Aid/CPR

Professional Affiliations

Association of Engineering Geologist
South Coast Geological Society
San Diego Association of Geologist
Inland Geological Society
BIA Riverside
BIA San Diego

Professional Experience

Mr. LaMont has been involved with numerous public works, residential and commercial earthwork projects within the southern California area. Many residential and public works projects have been successfully completed across southern and central California. Projects include fault and subsidence studies, fault evaluations, various commercial and residential site developments, FEMA levee certifications and military construction projects. These projects have generally included preliminary geotechnical investigations, slope stability evaluations, review and design recommendations, street improvements construction and testing services, and project management.

In addition, Mr. LaMont has performed governmental review of geotechnical reports for the County of Orange. Mr. LaMont has also completed geotechnical studies for the Riverside County Flood Control and Cities of Banning, Chino, Corona, Palm Springs, Lancaster and Victorville, to name a few.

Representative Project Experience

Project experience has included residential and commercial developments, for various land developers including Melia Homes, Meritage Homes, Frontier Enterprises, DR Horton, Integral Communities, Taylor-Morrison, Warmington Homes, Shea Homes, etc. Mr. LaMont has also completed geotechnical investigations and performed project management for numerous residential tracts and commercial facilities all across Southern California.

Professional History

Branch Manager/Principal Geologist - Riverside GeoTek, Inc., 2004 to present

Vice President, Principal Geologist - GeoSoils, Inc., Santa Ana, 2003 to 2004

Geotechnical Reviewer, Engineering Geologist - County of Orange, 2001 to 2003.

Project Geologist - GeoSoils, Inc., Santa Ana, California, 1994 to 2001.

Staff/Project Geologist - GeoSoils, Inc., Carlsbad, California, 1988 to 1994.

Kyle R. McHargue, PG

Project Geologist

Registrations

Registered Geologist, PG 9790

Education

B.A., Geology, University of Hawaii, Manoa

Certifications

OSHA 40-Hr HAZWOPER Training

OSHA 10-Hour Construction Safety and Health Training

Nuclear Gauge Certified

APNGA Radiation Safety Officer Certified

First Aid/CPR

Professional Affiliations

BIA Riverside

BIA Leaders of Tomorrow

Professional Experience

Mr, Kyle McHargue has over 7 years of geotechnical experience working on or managed a diverse range of geotechnical projects throughout Southern California through Riverside, San Bernardino, Orange, San Diego and Alameda counties. His geotechnical experience has ranged from staff and project geologist. Mr. McHargue's responsibilities include preparation of proposals, project management, preliminary geotechnical investigations, fault hazard investigations, landslide investigations, seismic refraction surveys, settlement monitoring, percolation and infiltration studies, manure and methane evaluations, and field studies as a field and project geologist for a diverse range of grading projects. Mr. McHargue has performed Phase I and Phase II Environmental Site Assessments for various property acquisitions and transfers in Riverside, Orange, San Diego, Los Angeles, San Bernardino, Kern, Fresno and Imperial Counties in California and Maricopa County in Arizona. Mr. McHargue also over 5 years field and office experience in land surveying and Storm Water Pollution Prevention Program (SWPPP) inspections.

Representative Project Experience-

Corona, Riverside County, California - Project Manager. Directed a geotechnical investigation, fault hazard and landslide investigation, slope stability analysis and Phase I Environmental Site Assessment for the Chaudhuri Estates hillside residential development.

Wildomar, Riverside County, California – Field Geologist. Supervised rough grading operations for 84-lot residential subdivision. In field challenges included stabilization fill design, fault hazard mapping, and high groundwater mitigation design.

Temecula, Riverside County, California – Project Geologist. Performed AP Fault Zone investigation, geotechnical and infiltration investigations for two adjacent commercial projects.

Ontario, San Bernardino County, California – Project and Field Geologist. Performed geotechnical, infiltration and manure/methane investigations for 121-acre development. Also supervised rough grading operations for a residential development included field mapping, field recommendations for remedial grading and preparation of reports and geologic maps.

Temecula, Riverside County, California – Field Geologist. Forensic distress investigation for religious center's structural & wall failures.

Anaheim Hills, Orange County, California – Project Geologist. Planned and performed geotechnical, infiltration investigations including all report preparation and slope stability analysis.

Employment History

GeoTek, Inc., Riverside-Project Geologist Jan. 2019 – Present

LGC Geo-Environmental, Inc., Temecula-Staff/Project Geologist Feb. 2015 – Jan. 2019

LGC Geo-Environmental, Inc., Temecula-Staff Geologist Dec. 2013 – Feb. 2015

J. MICHAEL BATTEN, CAC, CEM, REPA

Principal/Environmental Services Manager

Education

BS in Geology, California State University, Fresno 1988

Registrations

- Certified Asbestos Consultant (CA #95-1721)
- Licensed Asbestos Abatement Consultant (NV #IJPM0655)
- Certified Environmental Manager (NV #1782)
- Asbestos Professional Inspector (IL #100-11092)
- Registered Environmental Property Assessor (#113162))
- Certified Lead Inspector Assessor (CA #4358)
- Certified Lead Inspector (EPA #LBP-I-1162326-1)
- Certified Lead Risk Assessor (EPA #LBP-R-1162326-1)

Certifications

- AHERA Certified Asbestos Building Inspector, Management Planner, Project Designer, & Contractor/Supervisor
- EPA Accredited Lead-based Paint Inspector & Risk Assessor
- OSHA HAZWOPER certified worker & supervisor
- OSHA Construction Safety & Health (10-Hour)

Affiliations

- American Society of Testing and Materials
- National Registry of Environmental Professionals

Professional Experience

Mr. Batten has over 30 years of environmental experience, throughout which he has conducted and managed numerous environmental investigations, assessments, and remediations. He has prepared several NEPA assessments, USEPA EIS, and CEQA EIR reports. In addition, Mr. Batten has extensive experience in conducting asbestos and lead-based paint surveys and preparing management plans, including remediation design, for asbestos and lead present in buildings.

Project Experience

- **Phase I Environmental Site Assessments:** Mr. Batten has conducted more than 2,000 Phase I Environmental Site Assessments in 27 states, including Brownfield studies under USEPA grants.
- **Phase II Environmental Site Assessments:** Mr. Batten has conducted more than 150 Phase II Environmental Assessments, including Brownfield studies under USEPA grants.
- **Site Characterizations and Remediations:** Mr. Batten has experience conducting numerous site characterizations and remediations, including obtaining regulatory closure.
- **NEPA Studies:** Mr. Batten has conducted more than 200 NEPA studies, including Environmental Assessments, Environmental Impact Reports/Environmental Impact Studies, in eight states. The agencies involved include USEPA, FCC, BLM, National Park Service, and California EPA.
- **Asbestos Services:** Mr. Batten has conducted over 600 asbestos surveys in several states. He has also prepared numerous Asbestos Management Plans, prepared design plans, and monitored numerous abatement projects.
- **Lead-Based Paint Services:** Mr. Batten has conducted numerous Lead-Based Paint surveys.
- **Landfills**: Mr. Batten has conducted investigations and overseen remediations on landfills in Fresno, California and Henderson, Nevada.
- **Other Services:** Mr. Batten has been called upon to conduct less usual services on occasion, including mold consultation and investigation, radon studies, vapor intrusion studies, and indoor air quality studies.

J. MICHAEL BATTEN, continued…

GEOTEK

Professional History

Environmental Services Manager. GeoTek, Inc., 2001 to present.

Director of Environmental Services. ATC Associates, Inc., 1999 to 2001.

Director of Operations. Hygienetics Environmental Services, Inc., 1997 to 1999.

Project Manager. AllWest Environmental, Inc., 1996 to 1997.

Project Manager. Citadel Environmental Services, Inc., 2/1996 to 9/1996.

Project Manager. Boelter Environmental consultants, 3/1995 to 9/1995.

Senior Staff Geologist. Converse Consultants, 1992 to 1995.

Staff Geologist. Converse Environmental West, 1991 to 1992.

Project Geologist. Krazan and Associates, 1990 to 1991.

Environmental Technician. Krazan and Associates, 1989 to 1990.

National Registry of Environmental Professionals

For

Environmental Certifications

This is to Certify that

Michael J Batten

having sucessfully demonstrated to the Academic Board of this organization the required level of knowledge and ability, is here by awarded the distinction of

Registered Environmental Property Assessor

together with all rights, benefits and privileges attached thereto and that the name and title of the aforementioned registrant is today placed upon the register of the organization.

Given under our hands on this 15 day of June, 2013.

Richard A Young

Executive Director

NREP

113162

Registrant Number

This Certificate is the property of the National Registry of Environmental Professionals and must, upon demand, be returned.

United States Environmental Protection Agency

This is to certify that

J M Batten

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 14, 2022

LBP-I-I162326-2

Certification #

December 08, 2018

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

United States Environmental Protection Agency

This is to certify that

J M Batten

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 14, 2022

LBP-R-I162326-2

Certification #

December 08, 2018

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

STATE OF CALIFORNIA Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

505011721C 109 115

October 08, 2020

J. Michael Batten
8240 Edmond Street
Las Vegas NV 89139

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

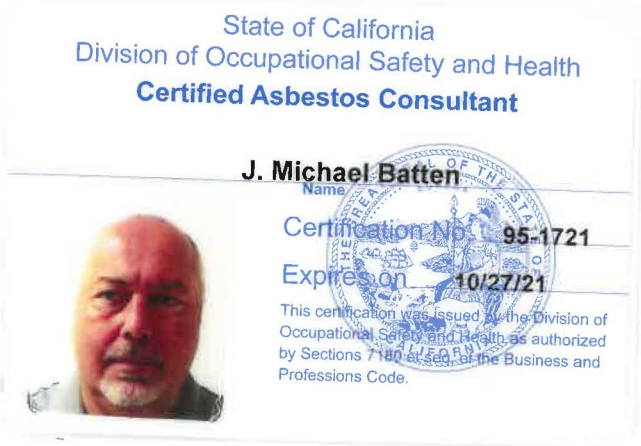
Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
Michael Batten	Lead Inspector/Assessor	LRC-00002629	11/17/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

MICHAEL BATTEN
8240 EDMOND STREET
LAS VEGAS, NV 89139

8/19/2020

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 11092

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
IDPH
PROTECTING HEALTH, IMPROVING LIVES

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 11092	**8/19/2020**	05/15/2021

MICHAEL BATTEN
8240 EDMOND STREET
LAS VEGAS, NV 89139
Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	8/10/2021

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

State of Nevada

Department of Conservation and Natural Resources

Division of Environmental Protection

This is to certify that

Michael J Batten

having given satisfactory evidence of the necessary qualifications as required by the Nevada Revised Statute 459.400 to 459.600, inclusive, and Nevada Administrative Code 459.970 to 459.9729, inclusive, has been granted certification as a

Environmental Manager

in the State of Nevada

In testimony whereof, witness the signature of the Administrator and the Seal of the State of Nevada.

1782

Certification Number

Greg Lovato, Administrator

8/31/2021

Expiration Date

State of Nevada Department of Business & Industry

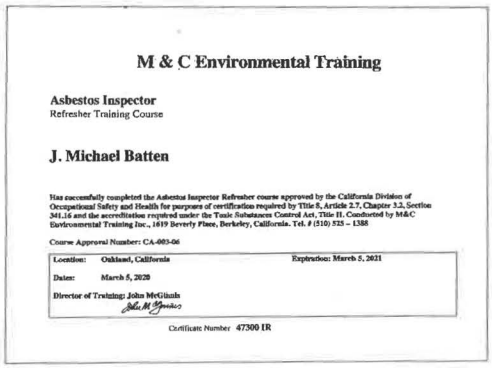
Industrial Relations (DIR)

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
Occupational Safety and Health Administration
Asbestos Control Program

Certifies That J. Michael Batten
Geotek Insite Inc.
is Licensed As Asbestos Abatement Consultant

License No. IJPM-655 Expiration Date 03/05/2021

Signature Of Licensee J. Michael Batten



M & C Environmental Training

Asbestos Inspector
Refresher Training Course

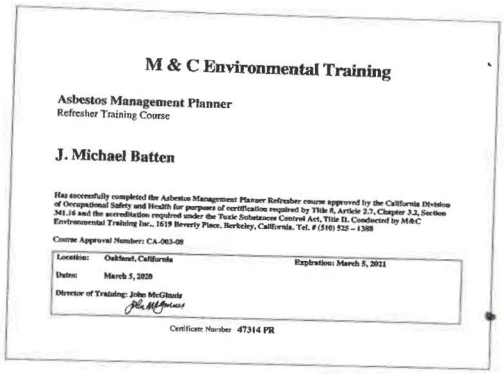
J. Michael Batten

Has successfully completed the Asbestos Inspector Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., 1619 Beverly Place, Berkeley, California. Tel. # (510) 525 – 1388

Course Approval Number: CA-003-06

Location: Oakland, California — Expiration: March 5, 2021
Date: March 5, 2020
Director of Training: John McGinnis

Certificate Number 47300 IR



M & C Environmental Training

Asbestos Management Planner
Refresher Training Course

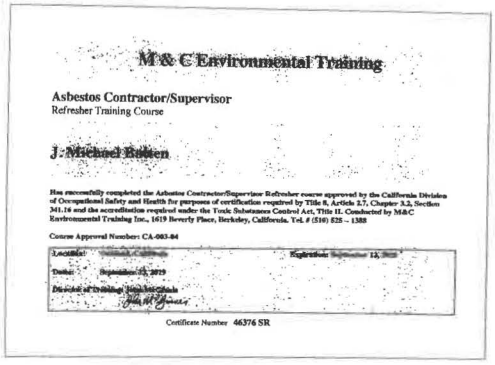
J. Michael Batten

Has successfully completed the Asbestos Management Planner Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., 1619 Beverly Place, Berkeley, California. Tel. # (510) 525 – 1388

Course Approval Number: CA-003-08

Location: Oakland, California — Expiration: March 5, 2021
Date: March 5, 2020
Director of Training: John McGinnis

Certificate Number 47314 PR



M & C Environmental Training

Asbestos Contractor/Supervisor
Refresher Training Course

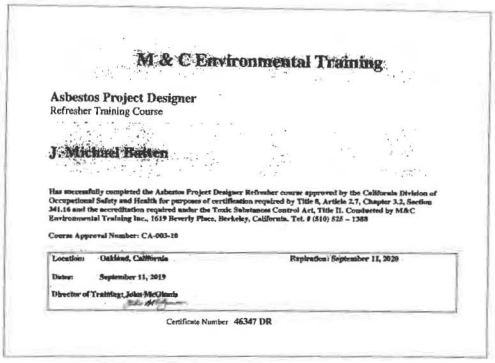
J. Michael Batten

Has successfully completed the Asbestos Contractor/Supervisor Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., 1619 Beverly Place, Berkeley, California. Tel. # (510) 525 – 1388

Course Approval Number: CA-003-04

Location: [illegible] — Expiration: September 12, 2019
Date: September 12, 2019
Director of Training: John McGinnis

Certificate Number 46376 SR



M & C Environmental Training

Asbestos Project Designer
Refresher Training Course

J. Michael Batten

Has successfully completed the Asbestos Project Designer Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., 1619 Beverly Place, Berkeley, California. Tel. # (510) 525 – 1388

Course Approval Number: CA-003-10

Location: Oakland, California — Expiration: September 11, 2020
Date: September 11, 2019
Director of Training: John McGinnis

Certificate Number 46347 DR

This is to Certify that

Michael Batten

Has Satisfactorily Completed Training in Accordance with Applicable Rules and Regulations

Asbestos Building Inspector Refresher

Completed: 3/19/2019 *Expires: 3/19/2020*

Certificate: BIR1903190998

2019

Occupational Training & Supply, Inc.
7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

OSHA 002340551

U.S. Department of Labor
Occupational Safety and Health Administration

Michael Batten

has successfully completed a 10-hour Occupational Safety and Health Training Course in

Construction Safety & Health

Kenner Costen — 12/12/09
(Trainer) (Date)

Appendix G
Hydrology Study

HYDROLOGY STUDY

FOR

Melrose and Matagual
APN 166-280-18, 166-280-60, 166-280-61
P22-0218

CITY OF VISTA, CA

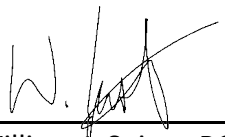
PREPARED FOR:

TTLC VISTA MELROSE, LLC
CONTACT: GORDON JONES
4350 VON KARMAN AVENUE
NEWPORT BEACH, CA 92660

PREPARED BY:

PASCO LARET SUITER & ASSOCIATES, INC.
27127 Calle Arroyo, Suite 1904
San Juan Capistrano, CA 92675
949-661-6695

Prepared: May 2022
Revised: September 2022
Revised: November 2022



William J. Suiter, RCE 68964 — 3/15/2023 DATE

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1.0 EXECUTIVE SUMMARY

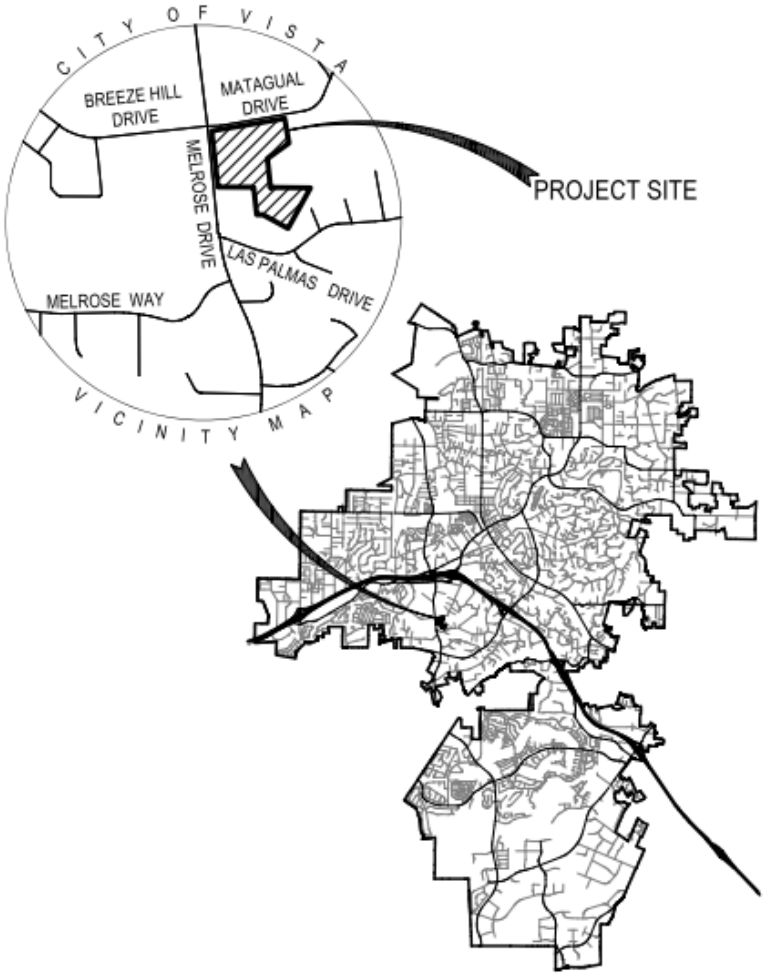
1.1 Introduction

This Hydrology Study for the proposed development has been prepared to analyze the hydrologic characteristics of the existing and proposed project site. This report presents both the methodology and the calculations used for determining the storm water runoff from the project site in the pre-developed (existing) conditions and the post-developed (proposed) conditions produced by the 100-year, 6-hour storm event.

1.2 Existing Conditions

The subject property is located at the intersection of S. Melrose Drive and Matagual Drive in the City of Vista. The site is east of S. Melrose Drive, south of Matagual Drive, and north of Las Palmas Drive, approximately 0.5 miles south of the CA-78 freeway.

Vicinity Map



The site is surrounded by residential homes to the south and east, commercial buildings to the west, and a church to the north. In the existing condition APN 166-280-18 consists of a single-family home, gravel driveway, and vacant undeveloped area; APN 166-280-60 consists of a church building and asphalt paved parking lot; and APN 166-280-61 consists of a vacant undeveloped parcel with gentle to moderate slopes. Elevations across the site range from a high of approximately 415 feet in the south-east central corner of the property to a low of approximately 337 feet in the north-west corner of the property.

The site area within the project boundaries is a total of 5.27 acres and the total hydrologic area analyzed in the existing condition, including offsite areas, is approximately 7.95 acres. The existing site consists of two drainage basins. Each drainage basin's storm water runoff flows overland to the north-west corner of the property. Existing Drainage Basin 1 flows overland from the southeast corner of the property through an adjacent property to the west then into S. Melrose Drive's curb and gutter then flows northerly towards a curb inlet at the intersection of S. Melrose Drive and Matagual Drive. Existing Drainage Basin 2 flows overland from the southeast corner of the property through and adjacent property to the north then into Matagual Drive's curb and gutter then flows westerly towards a separate curb inlet at the intersection of S. Melrose Drive and Matagual Drive. Runoff captured by each curb inlet then flows through separate storm drain pipe laterals and into an existing 36-inch RCP pipe within S. Melrose Drive that drains to the north. Refer to Appendix C for existing condition drainage exhibit.

Per the United States Department of Agriculture Web Soil Survey, the project site is underlain with Hydrologic Soil Group D. Refer to Appendix A for soil information.

Area weighted runoff coefficients were calculated using the methodology described in section 3.2.1 of the San Diego County Hydrology Manual and Table 3-1 Runoff Coefficients for Urban Areas. Using the Rational Method Procedure outlined in the San Diego County Hydrology Manual, a peak flow rate was calculated for the existing condition 100-year, 6-hour storm event. The table below summarizes the existing condition hydrologic data.

Summary of Existing Condition 100-yr Peak Discharge Rates

Discharge Node	Area (ac)	Q100 (cfs)
115 & 215	7.95	25.07

Refer to the existing condition hydrologic calculations included in Section 3.1 for detailed analysis.

1.3 Proposed Project

The project proposes to demolish the existing single-family residence, church building, parking lot, and associated hardscape improvements. The project will consist of 34 single-family detached homes, a new private street, curb & gutter, sidewalk, graded pads, drainage appurtenances, landscape, associated utilities, StormGarden Biofiltration Systems (BMPs) to meet the requirements for pollutant control, and Rtank underground storage facility (BMP) to meet the requirements for hydromodification management flow control and to mitigate for the 100-year 6-hour storm event.

Offsite improvements on Matagual Drive include constructing sidewalk, curb and gutter along the southerly side. Offsite improvements on S. Melrose Drive include half street full pavement section reconstruction, street widening, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. Offsite improvements on Matagual Drive include half street full pavement section reconstruction, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. The offsite improvements proposed require additional site design BMPs to satisfy pollutant control treatment, hydromodification management, and volume retention requirements, therefore tree wells are being proposed along the frontage of both Matagual Drive and S. Melrose Drive to meet the requirements. Two tree wells are proposed on S. Melrose Drive and seven tree wells are proposed on Matagual Drive.

In the proposed condition, onsite storm water runoff will flow northwesterly & be collected and conveyed into the proposed curb inlet type Stormgarden Biofiltration Systems (BMPs) which have been designed for pollutant control. A total of six StormGarden systems are proposed to treat the on-site runoff. Subsequently the runoff will discharge into a proposed Rtank underground storage facility (BMP) which has been designed to provide hydromodification management flow control and mitigation for the 100-year 6-hour storm event. The Rtank will discharge via proposed storm drain into the new proposed curb inlet on Matagual Drive.

The proposed site consists of five (5) drainage basins. Storm water runoff will be conveyed overland and within proposed storm drain pipes to two (2) Stormgarden Biofiltration Systems (BMPs) and one (1) proposed Rtank underground storage facility to meet the requirements for pollutant control, hydromodification management flow control and to mitigate for the 100-year 6-hour storm event. Refer to Appendix C for proposed condition drainage exhibit.

Drainage Basin 1 consists of an offsite area to the west of the project site. Runoff begins at the central south end of the project site within an adjacent property then surface flows westerly and into S. Melrose Drive's curb and gutter then continues to surface flow northerly towards and into the proposed relocated curb inlet at the corner of S. Melrose Drive and Matagual Drive. There are Green Street improvements proposed along this S. Melrose Drive frontage.

Drainage Basin 2 consists of the westerly half portion of the project site. Runoff begins at the most southerly point of the project boundary where an area of offsite runoff from an existing slope surface flows onto our project site. Runoff then surface flows into the proposed private

street's curb and gutter and heads northwesterly then enters a curb inlet type StormGarden Biofiltration System (1 of 2). Treated flows and high flows outlet into an underground storm drain pipe that flows easterly into a manhole where it confluences with stormwater from Drainage Basin 3 described in the following section. Combined flows then flow northerly towards an underground Rtank detention system located at the northwest corner of the project site. All outlet flows from the underground Rtank detention system will discharge via underground storm drain pipe to the north where it will confluence with offsite runoff from Drainage Basin 4 as described below. Combined flows then leave the site at the northwest corner of the project site and drain into the proposed Matagual Drive curb inlet then confluence with street runoff captured from Matagual Drive before flowing westerly through a new storm drain lateral and into the existing 36-inch RCP storm drain main line in S. Melrose Drive then continue to flow northerly. In the event the Rtank detention system and/or curb inlet outlet pipes clog, surface grading has been designed to allow storm water to pond on the surface of the private street, crest over the private street's back of sidewalk then into the HOA lot at the NE corner of the site and maintain a minimum of 1-foot separation between top of ponding crest level and lowest adjacent building finish floor elevation. This emergency overflow that enters the HOA lot then surface flows to the north and into Matagual Drive.

Drainage Basin 3 consists of the easterly half portion of the project site. Runoff begins at the most easterly point of the project boundary where an area of offsite runoff from an existing slope surface flows onto our project site. Runoff then surface flows into the proposed private street's curb and gutter and heads northwesterly then enters a curb inlet type StormGarden Biofiltration System (2 of 2). Treated flows and high flows outlet into an underground storm drain pipe that flows westerly into a manhole where it confluences with stormwater from Drainage Basin 2 and continues downstream as described in the Drainage Basin 2 section above.

Drainage Basin 4 consists of an offsite area to the east of the project site. Runoff begins near the project boundary's most easterly point. Runoff surface flows northerly through the existing residential property then enters a proposed concrete drainage ditch that drains to a proposed inlet at the central point of the project's easterly boundary. Captured runoff enters an underground storm drainage pipe that directs runoff to the property's northwesterly corner then confluences with combined flows from Drainage Basins 2 and 3 and continues downstream as described in the Drainage Basin 2 section above.

Drainage Basin 5 consists of a small portion of offsite area to the east of the project site and southerly half of Matagual Drive along the project's northerly street frontage. Runoff begins at a point east of the property boundary's central easterly boundary within an existing asphalt driveway. Runoff surface flows northerly along the driveway surface then enters a proposed concrete drainage ditch that drains captured runoff northerly along the project site's easterly boundary then outlets via a new curb outlet structure into Matagual Drive's curb and gutter. Surface runoff continues to drain westerly through the curb and gutter then into the proposed relocated curb inlet at the intersection of S. Melrose Drive and Matagual Drive where it confluences with combined flows from Drainage Basins 2, 3 and 4 then continues downstream as described in the Drainage Basin 2 section above.

The BMPs will provide hydromodification management flow control and storm water pollutant control to meet the requirements the California Regional Water Quality Control Board San Diego Region municipal storm water permit (Order No. R9-2013-0001, referred to as MS4 Permit). For detailed pollutant control and HMP calculations refer to the report titled "Priority Development Project Storm Water Quality Management Plan for "Melrose and Matagual" dated November 2022, prepared by Pasco Laret Suiter & Associates.

Area weighted runoff coefficients were calculated using the methodology described in Section 3.2.1 of the San Diego County Hydrology Manual and Table 3-1 Runoff Coefficients for Urban Areas. Using the Rational Method Procedure outlined in the San Diego County Hydrology Manual, a peak flow rate was calculated for the proposed condition 100-year, 6-hour storm event. The Rtank underground storm water storage facility provides mitigation for the 100-year 6-hour storm event. A detention analysis was performed to evaluate the effects of the storage facility on the 100-year, 6-hour storm event peak discharge rates. The table below summarizes the proposed condition hydrologic data.

Summary of Proposed Condition 100-yr Peak Discharge Rates

Discharge Node	Area (ac)	Q100 (cfs) Undetained	Q100 (cfs) Detained
115/180/200	7.95	29.89	24.70

Refer to the proposed undetained and detained hydrologic calculations and detention analysis included in Sections 3.2, 3.3, 3.4 and Appendix B for detailed analysis.

1.4 Conclusions

Based upon the analyses included in this report, the proposed Stormgarden Biofiltration Systems are sized to provide pollutant control and the proposed Rtank underground storage facility is sized to accommodate the increase in peak runoff in the proposed condition and are designed to meet the requirements of the MS4 Permit for hydromodification management.

1.5 References

"San Diego County Hydrology Manual", revised June 2003, County of San Diego, Department of Public Works, Flood Control Section.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov.

2.0 METHODOLOGY

Pursuant to the San Diego County Hydrology Manual (SDCHM) dated June 2003, the Rational Method is recommended for analyzing the runoff response from drainage areas up to approximately 1 square mile in size. The proposed project and associated watershed basins are less than 1 square mile, therefore the Rational Method was used to analyze the project's hydrologic characteristics in the existing and proposed conditions.

2.1 Rational Method

The Rational Method (RM) formula estimates the peak rate of runoff based on the variables of area, runoff coefficient, and rainfall intensity. The rainfall intensity (I) is equal to:

$$I = 7.44 \times P_6 \times D^{-0.645}$$

Where:

I = Intensity (in/hr)
P_6 = 6-hour precipitation (in)
D = duration (minutes – use Tc)

Using the Time of Concentration (Tc) which is the time required for a given element of water that originates at the most remote point of the basin being analyzed to reach the point at which the runoff from the basin is being analyzed, the RM equation determines the storm water runoff rate (Q) for a given basin in terms of flow, typically in cubic feet per second (cfs). The RM equation is as follows:

$$Q = CIA$$

Where:

Q= flow (cfs)
C = runoff coefficient, ratio of rainfall that produces storm water runoff (runoff vs. infiltration/evaporation/absorption/etc)
I = average rainfall intensity for a duration equal to the Tc for the area (in/hr)
A = drainage area contributing to the basin (ac)

The RM equation assumes that the storm event being analyzed delivers precipitation to the entire basin uniformly, and therefore the peak discharge rate will occur when a raindrop that falls at the most remote portion of the basin arrives at the point of analysis. The RM also assumes that the fraction of rainfall that becomes runoff or the runoff coefficient, C, is not affected by the storm intensity, I, or the precipitation zone number.

2.2 County of San Diego Criteria

The County of San Diego has developed its own tables, nomographs, and methodologies for analyzing storm water runoff for areas within the County. The County has also developed precipitation isopluvial contour maps that show even lines of rainfall anticipated from a given storm event (i.e. 100-year, 6-hour storm). The 100-year 6-hour storm event rainfall isopluvial map is included in Appendix A.

One of the variables of the RM equation is the runoff coefficient, C, which is dependent upon land use and soil type. Table 3-1 Runoff Coefficients for Urban Areas in the SDCHM categorizes the land use, the associated development density (dwelling units per acre) and the percentage of impervious area. Each of the categories listed has an associated runoff coefficient for each soil type class. A composite runoff coefficient can also be calculated for an area based on soil type and impervious percentage using the following equation from Section 3.1.2 of the SDCHM:

$$C = 0.90 \times (\% \text{ Impervious}) + Cp \times (1 - \% \text{ Impervious})$$

Where: Cp = Pervious Coefficient Runoff Value for the soil type
(shown in Table 3-1 as Undisturbed Natural Terrain/Permanent Open Space, 0% Impervious)

The onsite hydrologic calculations contained herein figure a composite runoff coefficient for the onsite project areas based on the percentage of impervious area and the percentage of pervious or landscape area. Refer to Appendix A for runoff coefficient calculations.

The County has also illustrated in detail the methodology for determining the time of concentration, in particular the initial time of concentration. The County has adopted the Federal Aviation Agency's (FAA) overland time of flow equation. This equation essentially limits the flow path length for the initial time of concentration to lengths of 100 feet or less, and is dependent on land use and slope.

2.3 AES Rational Method Computer Model

The Rational Method computer program developed by Advanced Engineering Software (AES) satisfies the County of San Diego design criteria, therefore it is the computer model used for this study. The AES hydrologic model is capable of creating independent node-link models of each interior drainage basin and linking these sub-models together at confluence points to determine peak flow rates. The program utilizes base information input by the user to perform calculations for up to 15 hydrologic processes. The required base information includes drainage basin area, storm water facility locations and sizes, land uses, flow patterns, and topographic elevations. The hydrologic conditions were analyzed in accordance with the 2003 County of San Diego Hydrology Manual criteria as follows:

Design Storm	100-year, 6-hour
100-year, 6-hour Precipitation	3.1 inches

Rainfall Intensity	Based on the 2003 County of San Diego Hydrology Manual criteria	
Runoff Coefficient*	Pervious D soil	$C_P = 0.35$
	Impervious	C = 0.90
Soil Type	D	

*Weighted runoff coefficients were calculated where appropriate. Refer to Appendix A.

3.0 HYDROLOGIC ANALYSIS

Table 1 below compares and summarizes the hydrologic calculations provided in Sections 3.1, 3.2 and 3.4.

Table 1: Summary of 100-yr Peak Discharge Rates

Existing			**Proposed**			**Proposed Detained**		
Discharge Node	*Area (ac)*	*Q100 (cfs)*	*Discharge Node*	*Area (ac)*	*Q100 (cfs)*	*Discharge Node*	*Area (ac)*	*Q100 (cfs)*
115 & 215	7.95	**25.07**	115/180/200	7.95	**29.89**	115/180/200	7.95	**24.70**

3.1 Existing Condition Hydrologic Model Output (100-Year Event)

```
**************************************************************************

            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                         2003,1985,1981 HYDROLOGY MANUAL
          (c) Copyright 1982-2016 Advanced Engineering Software (aes)
              Ver. 23.0 Release Date: 07/01/2016  License ID 1452

                              Analysis prepared by:

                          PASCO LARET SUITER & ASSOCIATES
                          27127 CALLE ARROYO, SUITE 1904
                           SAN JUAN CAPISTRANO, CA 92675
                                  949-661-6695

 ************************* DESCRIPTION OF STUDY *************************
* 3684 Melrose and Matagual                                              *
* EXISTING CONDITION                                                     *
* 100-YR                                                                 *
 **************************************************************************

  FILE NAME: 3684E100.DAT
  TIME/DATE OF STUDY: 08:09 03/09/2022
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   3.100
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  =====  ======  =====  =======
  1   47.0     23.5    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150
  2   20.0     10.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    105.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    417.40
  DOWNSTREAM ELEVATION(FEET) =    401.30
  ELEVATION DIFFERENCE(FEET) =     16.10
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.427
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.747
  SUBAREA RUNOFF(CFS) =      0.57
  TOTAL AREA(ACRES) =      0.21   TOTAL RUNOFF(CFS) =      0.57

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    110.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    401.30  DOWNSTREAM(FEET) =    352.30
  CHANNEL LENGTH THRU SUBAREA(FEET) =   448.00   CHANNEL SLOPE =  0.1094
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.073
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6300
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.56
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   3.00
  AVERAGE FLOW DEPTH(FEET) =   0.13   TRAVEL TIME(MIN.) =   2.49
  Tc(MIN.) =    7.91
  SUBAREA AREA(ACRES) =     1.58       SUBAREA RUNOFF(CFS) =    6.05
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.597
  TOTAL AREA(ACRES) =        1.8         PEAK FLOW RATE(CFS) =       6.49

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.16   FLOW VELOCITY(FEET/SEC.) =   3.50
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =     523.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    115.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
```

```
  UPSTREAM ELEVATION(FEET) =  352.30  DOWNSTREAM ELEVATION(FEET) =  338.40
  STREET LENGTH(FEET) =   402.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 47.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  23.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.58
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   12.29
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.66
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.73
  STREET FLOW TRAVEL TIME(MIN.) =   1.44   Tc(MIN.) =    9.35
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.453
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.653
  SUBAREA AREA(ACRES) =    0.46      SUBAREA RUNOFF(CFS) =    2.18
  TOTAL AREA(ACRES) =        2.2        PEAK FLOW RATE(CFS) =       8.01

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  12.54
  FLOW VELOCITY(FEET/SEC.) =  4.74   DEPTH*VELOCITY(FT*FT/SEC.) =   1.79
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =     925.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.35
  RAINFALL INTENSITY(INCH/HR) =   5.45
  TOTAL STREAM AREA(ACRES) =     2.25
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      8.01

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    205.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
```

```
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    35.00
  UPSTREAM ELEVATION(FEET) =    418.30
  DOWNSTREAM ELEVATION(FEET) =    408.10
  ELEVATION DIFFERENCE(FEET) =     10.20
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    3.707
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.54
  TOTAL AREA(ACRES) =      0.19   TOTAL RUNOFF(CFS) =      0.54

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    205.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  USER SPECIFIED Tc(MIN.) =    5.000
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  SUBAREA RUNOFF(CFS) =      0.54
  TOTAL AREA(ACRES) =      0.19   TOTAL RUNOFF(CFS) =      0.54

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    210.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    408.10  DOWNSTREAM(FEET) =    343.20
  CHANNEL LENGTH THRU SUBAREA(FEET) =   747.00   CHANNEL SLOPE =  0.0869
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.760
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .5500
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       8.66
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   3.47
  AVERAGE FLOW DEPTH(FEET) =   0.20   TRAVEL TIME(MIN.) =   3.59
  Tc(MIN.) =    8.59
  SUBAREA AREA(ACRES) =     5.21       SUBAREA RUNOFF(CFS) =   16.51
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.543
  TOTAL AREA(ACRES) =        5.4         PEAK FLOW RATE(CFS) =      16.89

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
```

```
 DEPTH(FEET) =  0.26   FLOW VELOCITY(FEET/SEC.) =   4.00
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =     882.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    210.00 TO NODE    215.00 IS CODE =  51
----------------------------------------------------------------------------
 >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    343.20  DOWNSTREAM(FEET) =    337.10
 CHANNEL LENGTH THRU SUBAREA(FEET) =   135.00   CHANNEL SLOPE =  0.0452
 CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
 MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.586
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .5800
 S.C.S. CURVE NUMBER (AMC II) =   0
 TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      17.37
 TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   5.38
 AVERAGE FLOW DEPTH(FEET) =   0.23   TRAVEL TIME(MIN.) =   0.42
 Tc(MIN.) =    9.01
 SUBAREA AREA(ACRES) =     0.30       SUBAREA RUNOFF(CFS) =    0.97
 AREA-AVERAGE RUNOFF COEFFICIENT =  0.545
 TOTAL AREA(ACRES) =        5.7         PEAK FLOW RATE(CFS) =      17.35

 END OF SUBAREA CHANNEL FLOW HYDRAULICS:
 DEPTH(FEET) =  0.23   FLOW VELOCITY(FEET/SEC.) =   5.37
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    215.00 =    1017.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    215.00 TO NODE    115.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    9.01
 RAINFALL INTENSITY(INCH/HR) =   5.59
 TOTAL STREAM AREA(ACRES) =     5.70
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     17.35

 ** CONFLUENCE DATA **
 STREAM     RUNOFF       Tc      INTENSITY      AREA
 NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
     1        8.01     9.35        5.453          2.25
     2       17.35     9.01        5.586          5.70

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.
```

```
  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       25.07     9.01       5.586
      2       24.95     9.35       5.453

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      25.07   Tc(MIN.) =    9.01
  TOTAL AREA(ACRES) =        8.0
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    115.00 =    1017.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        8.0  TC(MIN.) =      9.01
  PEAK FLOW RATE(CFS)   =      25.07
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

3.2 Proposed Undetained Condition Hydrologic Model Output (100-Year Event)

```
**************************************************************************

            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                         2003,1985,1981 HYDROLOGY MANUAL
          (c) Copyright 1982-2016 Advanced Engineering Software (aes)
              Ver. 23.0 Release Date: 07/01/2016  License ID 1452

                              Analysis prepared by:

                          PASCO LARET SUITER & ASSOCIATES
                          27127 CALLE ARROYO, SUITE 1904
                           SAN JUAN CAPISTRANO, CA 92675
                                  949-661-6695



 ************************* DESCRIPTION OF STUDY *************************
* 3684 MELROSE AND MATAGUAL                                              *
* PROPOSED CONDITION                                                     *
* 100-YR                                                                 *
 **************************************************************************

  FILE NAME: 3684P100.DAT
  TIME/DATE OF STUDY: 10:37 11/21/2022
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   3.100
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   4.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   47.0     23.5    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150
  2   21.0     10.5    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150
  3   20.0     10.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
```

```
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    105.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    366.60
  DOWNSTREAM ELEVATION(FEET) =    361.80
  ELEVATION DIFFERENCE(FEET) =      4.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.297
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.038
  SUBAREA RUNOFF(CFS) =      0.27
  TOTAL AREA(ACRES) =      0.11   TOTAL RUNOFF(CFS) =      0.27

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    110.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    361.80  DOWNSTREAM(FEET) =    350.75
  CHANNEL LENGTH THRU SUBAREA(FEET) =   143.00   CHANNEL SLOPE =  0.0773
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.242
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6700
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.02
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.85
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   1.29
  Tc(MIN.) =    7.59
  SUBAREA AREA(ACRES) =     0.36       SUBAREA RUNOFF(CFS) =    1.51
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.595
  TOTAL AREA(ACRES) =        0.5         PEAK FLOW RATE(CFS) =       1.75

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   2.11
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =     218.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    115.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) =  350.75  DOWNSTREAM ELEVATION(FEET) =  337.72
  STREET LENGTH(FEET) =   425.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 47.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  23.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.86
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    8.25
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.59
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.04
  STREET FLOW TRAVEL TIME(MIN.) =   1.97   Tc(MIN.) =    9.56
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.377
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.734
  SUBAREA AREA(ACRES) =    0.48      SUBAREA RUNOFF(CFS) =    2.25
  TOTAL AREA(ACRES) =        1.0        PEAK FLOW RATE(CFS) =       3.75

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.31   HALFSTREET FLOOD WIDTH(FEET) =   9.36
  FLOW VELOCITY(FEET/SEC.) =  3.77   DEPTH*VELOCITY(FT*FT/SEC.) =   1.18
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =     643.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    125.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    97.00
```

```
  UPSTREAM ELEVATION(FEET) =    416.30
  DOWNSTREAM ELEVATION(FEET) =    398.50
  ELEVATION DIFFERENCE(FEET) =     17.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.102
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.062
  SUBAREA RUNOFF(CFS) =      0.54
  TOTAL AREA(ACRES) =      0.14   TOTAL RUNOFF(CFS) =      0.54

****************************************************************************
  FLOW PROCESS FROM NODE    125.00 TO NODE    130.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  398.50  DOWNSTREAM ELEVATION(FEET) =  337.57
  STREET LENGTH(FEET) =   685.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 21.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       5.81
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.30
    HALFSTREET FLOOD WIDTH(FEET) =    8.92
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    6.36
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.94
  STREET FLOW TRAVEL TIME(MIN.) =   1.80   Tc(MIN.) =    6.90
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.637
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.650
  SUBAREA AREA(ACRES) =    2.42      SUBAREA RUNOFF(CFS) =   10.60
  TOTAL AREA(ACRES) =        2.6        PEAK FLOW RATE(CFS) =      11.05

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.36   HALFSTREET FLOOD WIDTH(FEET) =  11.77
  FLOW VELOCITY(FEET/SEC.) =  7.35   DEPTH*VELOCITY(FT*FT/SEC.) =   2.66
  LONGEST FLOWPATH FROM NODE    120.00 TO NODE    130.00 =     782.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    135.00 IS CODE =  31
```

```
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   335.07  DOWNSTREAM(FEET) =   334.92
  FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.53
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      11.05
  PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =    6.91
  LONGEST FLOWPATH FROM NODE    120.00 TO NODE    135.00 =     792.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    135.00 TO NODE    135.00 IS CODE =   1
------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
========================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.91
  RAINFALL INTENSITY(INCH/HR) =   6.63
  TOTAL STREAM AREA(ACRES) =     2.56
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     11.05

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    145.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
========================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    95.00
  UPSTREAM ELEVATION(FEET) =    419.50
  DOWNSTREAM ELEVATION(FEET) =    398.50
  ELEVATION DIFFERENCE(FEET) =     21.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.027
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.241
  SUBAREA RUNOFF(CFS) =      0.31
  TOTAL AREA(ACRES) =      0.12   TOTAL RUNOFF(CFS) =      0.31

****************************************************************************
  FLOW PROCESS FROM NODE    145.00 TO NODE    150.00 IS CODE =  62
------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
========================================================================
  UPSTREAM ELEVATION(FEET) =  398.50  DOWNSTREAM ELEVATION(FEET) =  337.57
```

```
  STREET LENGTH(FEET) =   704.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 21.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       5.22
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.30
    HALFSTREET FLOOD WIDTH(FEET) =    8.57
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    6.12
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.82
  STREET FLOW TRAVEL TIME(MIN.) =   1.92   Tc(MIN.) =    7.94
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.060
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.618
  SUBAREA AREA(ACRES) =    2.60      SUBAREA RUNOFF(CFS) =    9.93
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =      10.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.36   HALFSTREET FLOOD WIDTH(FEET) =  11.44
  FLOW VELOCITY(FEET/SEC.) =  7.14   DEPTH*VELOCITY(FT*FT/SEC.) =   2.53
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    150.00 =     799.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    150.00 TO NODE    135.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   335.07  DOWNSTREAM(FEET) =   334.92
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  12.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.83
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      10.19
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =    8.02
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    135.00 =     829.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    135.00 TO NODE    135.00 IS CODE =   1
----------------------------------------------------------------------------
```

```
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
================================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.02
  RAINFALL INTENSITY(INCH/HR) =   6.02
  TOTAL STREAM AREA(ACRES) =     2.72
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     10.19

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       11.05     6.91        6.627          2.56
      2       10.19     8.02        6.024          2.72

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       19.83     6.91       6.627
      2       20.23     8.02       6.024

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      20.23   Tc(MIN.) =    8.02
  TOTAL AREA(ACRES) =        5.3
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    135.00 =     829.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    135.00 TO NODE    155.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   334.92  DOWNSTREAM(FEET) =   334.29
  FLOW LENGTH(FEET) =   120.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  17.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.09
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.23
  PIPE TRAVEL TIME(MIN.) =   0.25    Tc(MIN.) =    8.26
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    155.00 =     949.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    155.00 TO NODE    160.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   329.54  DOWNSTREAM(FEET) =   329.52
  FLOW LENGTH(FEET) =     4.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  18.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.92
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.23
  PIPE TRAVEL TIME(MIN.) =   0.01    Tc(MIN.) =    8.27
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    160.00 =     953.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    160.00 TO NODE    160.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==========================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.27
  RAINFALL INTENSITY(INCH/HR) =   5.90
  TOTAL STREAM AREA(ACRES) =     5.28
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     20.23

****************************************************************************
  FLOW PROCESS FROM NODE    165.00 TO NODE    170.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    85.00
  UPSTREAM ELEVATION(FEET) =    403.80
  DOWNSTREAM ELEVATION(FEET) =    386.40
  ELEVATION DIFFERENCE(FEET) =     17.40
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.930
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.68
  TOTAL AREA(ACRES) =      0.18   TOTAL RUNOFF(CFS) =      0.68

****************************************************************************
  FLOW PROCESS FROM NODE    165.00 TO NODE    170.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  USER SPECIFIED Tc(MIN.) =    5.000
```

```
 100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
 SUBAREA RUNOFF(CFS) =      0.68
 TOTAL AREA(ACRES) =      0.18   TOTAL RUNOFF(CFS) =      0.68

****************************************************************************
 FLOW PROCESS FROM NODE    170.00 TO NODE    175.00 IS CODE =  51
----------------------------------------------------------------------------
 >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    386.40  DOWNSTREAM(FEET) =    356.80
 CHANNEL LENGTH THRU SUBAREA(FEET) =   338.00   CHANNEL SLOPE =  0.0876
 CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
 MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
 100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.447
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .6300
 S.C.S. CURVE NUMBER (AMC II) =   0
 TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.94
 TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.54
 AVERAGE FLOW DEPTH(FEET) =   0.12   TRAVEL TIME(MIN.) =   2.22
 Tc(MIN.) =    7.22
 SUBAREA AREA(ACRES) =     1.11       SUBAREA RUNOFF(CFS) =    4.51
 AREA-AVERAGE RUNOFF COEFFICIENT =  0.606
 TOTAL AREA(ACRES) =        1.3         PEAK FLOW RATE(CFS) =       5.04

 END OF SUBAREA CHANNEL FLOW HYDRAULICS:
 DEPTH(FEET) =  0.16   FLOW VELOCITY(FEET/SEC.) =   2.95
 LONGEST FLOWPATH FROM NODE    165.00 TO NODE    175.00 =     784.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    175.00 TO NODE    160.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   354.30  DOWNSTREAM(FEET) =   329.52
 FLOW LENGTH(FEET) =   442.00   MANNING'S N =  0.009
 DEPTH OF FLOW IN   9.0 INCH PIPE IS   6.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  13.82
 ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.04
 PIPE TRAVEL TIME(MIN.) =   0.53    Tc(MIN.) =    7.75
 LONGEST FLOWPATH FROM NODE    165.00 TO NODE    160.00 =    1226.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    160.00 TO NODE    160.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
```

```
================================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.75
  RAINFALL INTENSITY(INCH/HR) =   6.16
  TOTAL STREAM AREA(ACRES) =     1.29
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      5.04

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       20.23     8.27        5.903          5.28
      2        5.04     7.75        6.157          1.29

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       24.44     7.75       6.157
      2       25.06     8.27       5.903

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      25.06   Tc(MIN.) =    8.27
  TOTAL AREA(ACRES) =        6.6
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    160.00 =    1226.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    160.00 TO NODE    180.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   329.52  DOWNSTREAM(FEET) =   329.48
  FLOW LENGTH(FEET) =     9.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  19.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.06
  PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =    8.29
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    180.00 =    1235.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    180.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
```

```
  TIME OF CONCENTRATION(MIN.) =    8.29
  RAINFALL INTENSITY(INCH/HR) =   5.89
  TOTAL STREAM AREA(ACRES) =     6.57
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     25.06

****************************************************************************
  FLOW PROCESS FROM NODE    185.00 TO NODE    190.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    80.00
  UPSTREAM ELEVATION(FEET) =    379.00
  DOWNSTREAM ELEVATION(FEET) =    366.30
  ELEVATION DIFFERENCE(FEET) =     12.70
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.783
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.08
  TOTAL AREA(ACRES) =      0.02   TOTAL RUNOFF(CFS) =      0.08

****************************************************************************
  FLOW PROCESS FROM NODE    185.00 TO NODE    190.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  USER SPECIFIED Tc(MIN.) =    5.000
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  SUBAREA RUNOFF(CFS) =      0.11
  TOTAL AREA(ACRES) =      0.03   TOTAL RUNOFF(CFS) =      0.11

****************************************************************************
  FLOW PROCESS FROM NODE    190.00 TO NODE    195.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    366.30  DOWNSTREAM(FEET) =    355.50
  CHANNEL LENGTH THRU SUBAREA(FEET) =   242.00   CHANNEL SLOPE =  0.0446
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.507
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8200
```

```
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.32
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.91
  AVERAGE FLOW DEPTH(FEET) =   0.04   TRAVEL TIME(MIN.) =   2.11
  Tc(MIN.) =    7.11
  SUBAREA AREA(ACRES) =     0.08       SUBAREA RUNOFF(CFS) =    0.43
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.722
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.52

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.05   FLOW VELOCITY(FEET/SEC.) =   1.96
  LONGEST FLOWPATH FROM NODE    185.00 TO NODE    195.00 =     377.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    195.00 TO NODE    200.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  3 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  355.50  DOWNSTREAM ELEVATION(FEET) =  337.11
  STREET LENGTH(FEET) =   446.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 20.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.20
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.22
    HALFSTREET FLOOD WIDTH(FEET) =    4.85
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.39
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.76
  STREET FLOW TRAVEL TIME(MIN.) =   2.19   Tc(MIN.) =    9.31
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.471
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.801
  SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    1.36
  TOTAL AREA(ACRES) =        0.4        PEAK FLOW RATE(CFS) =       1.80

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.25   HALFSTREET FLOOD WIDTH(FEET) =   6.12
  FLOW VELOCITY(FEET/SEC.) =  3.65   DEPTH*VELOCITY(FT*FT/SEC.) =   0.91
```

```
  LONGEST FLOWPATH FROM NODE    185.00 TO NODE    200.00 =     823.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.31
  RAINFALL INTENSITY(INCH/HR) =   5.47
  TOTAL STREAM AREA(ACRES) =     0.41
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.80

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       25.06     8.29        5.895          6.57
      2        1.80     9.31        5.471          0.41

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       26.66     8.29       5.895
      2       25.06     9.31       5.471

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      26.66   Tc(MIN.) =    8.29
  TOTAL AREA(ACRES) =        7.0
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    180.00 =    1235.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    200.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       26.66     8.29       5.895        6.98
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    200.00 =    1235.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
```

```
     1        3.75     9.56       5.377        0.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    200.00 =     643.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
     1      29.91       8.29        5.895
     2      28.07       9.56        5.377

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      29.91   Tc(MIN.) =    8.29
  TOTAL AREA(ACRES) =        7.9
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        7.9  TC(MIN.) =      8.29
  PEAK FLOW RATE(CFS)   =      29.91
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

3.3 Detention Analysis (100-Year Event)

The underground storm water storage facilities (BMPs) provide hydromodification management flow control and mitigation of the 100-year storm event peak flow rate. The 100-year storm event detention analysis was performed using HydroCAD Stormwater Modeling software. The inflow runoff hydrographs to the BMPs were modeled using RatHydro which is a Rational Method Design Storm Hydrograph software that creates a hydrograph using the results of the Rational Method calculations. HydroCAD has the ability to route the 100-year 6-hour storm event inflow hydrograph through the BMPs. Based on the BMP cross sectional geometry, stage storage and outlet structure data, HydroCAD calculates the detained peak flow rate and detained time to peak.

The underground storm water storage facility has a low-flow orifice to comply with HMP requirements and an overflow weir for larger storm events. Refer to the plans for facility details.

The proposed underground Rtank detention system will discharge via proposed storm drain to a proposed curb inlet on Matagual Drive at the northwestern corner of the site where it will confluence with surface flow from Matagual Drive. The combined flow will then discharge via proposed storm drain into the existing public storm drain system in S. Melrose Drive.

For the proposed detained hydrologic analysis, the effects of the detention provided by the 1 underground storage facility was incorporated into the AES analysis. This was done by inserting the results from the HydroCAD analysis, detained peak flow rate and detained time to peak, into the proposed undetained condition AES model to create the proposed detained condition model. Refer to Section 3.4 for the detained AES output.

Based on the results of the HydroCAD analysis, mitigation for the 100-year storm event peak flow rate is provided. Refer to Appendix B for the HydroCAD detention detailed output.

3.4 Proposed Detained Condition Hydrologic Model Output (100-Year Event)

```
**************************************************************************

            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                         2003,1985,1981 HYDROLOGY MANUAL
          (c) Copyright 1982-2016 Advanced Engineering Software (aes)
              Ver. 23.0 Release Date: 07/01/2016  License ID 1452

                              Analysis prepared by:


                           PASCO LARET SUITER & ASSOCIATES
                           27127 CALLE ARROYO, SUITE 1904
                            SAN JUAN CAPISTRANO, CA 92675
                                    949-661-6695



 ************************** DESCRIPTION OF STUDY **************************
* 3684 MELROSE AND MATAGUAL                                               *
* PROPOSED CONDITION DETAINED                                             *
* 100-YR                                                                  *
 *************************************************************************

  FILE NAME: 3684PD00.DAT
  TIME/DATE OF STUDY: 10:49 11/21/2022
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   3.100
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   4.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   47.0     23.5    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150
  2   21.0     10.5    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150
  3   20.0     10.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
```

```
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    105.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    366.60
  DOWNSTREAM ELEVATION(FEET) =    361.80
  ELEVATION DIFFERENCE(FEET) =      4.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.297
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.038
  SUBAREA RUNOFF(CFS) =      0.27
  TOTAL AREA(ACRES) =      0.11   TOTAL RUNOFF(CFS) =      0.27

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    110.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    361.80  DOWNSTREAM(FEET) =    350.75
  CHANNEL LENGTH THRU SUBAREA(FEET) =   143.00   CHANNEL SLOPE =  0.0773
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.242
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6700
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.02
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.85
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   1.29
  Tc(MIN.) =    7.59
  SUBAREA AREA(ACRES) =     0.36       SUBAREA RUNOFF(CFS) =    1.51
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.595
  TOTAL AREA(ACRES) =        0.5         PEAK FLOW RATE(CFS) =       1.75

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   2.11
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =     218.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    115.00 IS CODE =  62
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) =  350.75  DOWNSTREAM ELEVATION(FEET) =  337.72
  STREET LENGTH(FEET) =   425.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 47.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  23.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.86
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    8.25
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.59
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.04
  STREET FLOW TRAVEL TIME(MIN.) =   1.97   Tc(MIN.) =    9.56
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.377
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.734
  SUBAREA AREA(ACRES) =    0.48      SUBAREA RUNOFF(CFS) =    2.25
  TOTAL AREA(ACRES) =        1.0        PEAK FLOW RATE(CFS) =       3.75

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.31   HALFSTREET FLOOD WIDTH(FEET) =   9.36
  FLOW VELOCITY(FEET/SEC.) =  3.77   DEPTH*VELOCITY(FT*FT/SEC.) =   1.18
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =     643.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    125.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4800
  S.C.S. CURVE NUMBER (AMC II) =   0
```

```
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    97.00
  UPSTREAM ELEVATION(FEET) =    416.30
  DOWNSTREAM ELEVATION(FEET) =    398.50
  ELEVATION DIFFERENCE(FEET) =     17.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.102
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.062
  SUBAREA RUNOFF(CFS) =      0.54
  TOTAL AREA(ACRES) =      0.14   TOTAL RUNOFF(CFS) =      0.54

****************************************************************************
  FLOW PROCESS FROM NODE    125.00 TO NODE    130.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  398.50  DOWNSTREAM ELEVATION(FEET) =  337.57
  STREET LENGTH(FEET) =   685.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 21.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       5.81
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.30
    HALFSTREET FLOOD WIDTH(FEET) =    8.92
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    6.36
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.94
  STREET FLOW TRAVEL TIME(MIN.) =   1.80   Tc(MIN.) =    6.90
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.637
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.650
  SUBAREA AREA(ACRES) =    2.42      SUBAREA RUNOFF(CFS) =   10.60
  TOTAL AREA(ACRES) =        2.6        PEAK FLOW RATE(CFS) =      11.05

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.36   HALFSTREET FLOOD WIDTH(FEET) =  11.77
  FLOW VELOCITY(FEET/SEC.) =  7.35   DEPTH*VELOCITY(FT*FT/SEC.) =   2.66
  LONGEST FLOWPATH FROM NODE    120.00 TO NODE    130.00 =     782.00 FEET.

****************************************************************************
```

```
 FLOW PROCESS FROM NODE    130.00 TO NODE    135.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   335.07  DOWNSTREAM(FEET) =   334.92
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.009
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  10.53
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      11.05
 PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =    6.91
 LONGEST FLOWPATH FROM NODE    120.00 TO NODE    135.00 =     792.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    135.00 TO NODE    135.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.91
 RAINFALL INTENSITY(INCH/HR) =   6.63
 TOTAL STREAM AREA(ACRES) =     2.56
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     11.05

****************************************************************************
 FLOW PROCESS FROM NODE    140.00 TO NODE    145.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3600
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =    95.00
 UPSTREAM ELEVATION(FEET) =    419.50
 DOWNSTREAM ELEVATION(FEET) =    398.50
 ELEVATION DIFFERENCE(FEET) =     21.00
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.027
 WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.241
 SUBAREA RUNOFF(CFS) =      0.31
 TOTAL AREA(ACRES) =      0.12   TOTAL RUNOFF(CFS) =      0.31

****************************************************************************
 FLOW PROCESS FROM NODE    145.00 TO NODE    150.00 IS CODE =  62
----------------------------------------------------------------------------
 >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
```

```
  UPSTREAM ELEVATION(FEET) =  398.50  DOWNSTREAM ELEVATION(FEET) =  337.57
  STREET LENGTH(FEET) =   704.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 21.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.50
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       5.22
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.30
    HALFSTREET FLOOD WIDTH(FEET) =    8.57
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    6.12
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.82
  STREET FLOW TRAVEL TIME(MIN.) =   1.92   Tc(MIN.) =    7.94
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.060
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.618
  SUBAREA AREA(ACRES) =    2.60      SUBAREA RUNOFF(CFS) =    9.93
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =      10.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.36   HALFSTREET FLOOD WIDTH(FEET) =  11.44
  FLOW VELOCITY(FEET/SEC.) =  7.14   DEPTH*VELOCITY(FT*FT/SEC.) =   2.53
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    150.00 =     799.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    150.00 TO NODE    135.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   335.07  DOWNSTREAM(FEET) =   334.92
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  12.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.83
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      10.19
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =    8.02
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    135.00 =     829.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    135.00 TO NODE    135.00 IS CODE =   1
```

```
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.02
  RAINFALL INTENSITY(INCH/HR) =   6.02
  TOTAL STREAM AREA(ACRES) =     2.72
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     10.19

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       11.05     6.91        6.627          2.56
      2       10.19     8.02        6.024          2.72

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       19.83     6.91       6.627
      2       20.23     8.02       6.024

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      20.23   Tc(MIN.) =    8.02
  TOTAL AREA(ACRES) =        5.3
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    135.00 =     829.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    135.00 TO NODE    155.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   334.92  DOWNSTREAM(FEET) =   334.29
  FLOW LENGTH(FEET) =   120.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  17.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.09
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.23
  PIPE TRAVEL TIME(MIN.) =   0.25    Tc(MIN.) =    8.26
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    155.00 =     949.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    155.00 TO NODE    155.00 IS CODE =   7
----------------------------------------------------------------------------
  >>>>>USER SPECIFIED HYDROLOGY INFORMATION AT NODE<<<<<
```

```
==========================================================================
  USER-SPECIFIED VALUES ARE AS FOLLOWS:
  TC(MIN) =  10.76   RAIN INTENSITY(INCH/HOUR) =  4.98
  TOTAL AREA(ACRES) =     5.29   TOTAL RUNOFF(CFS) =     15.53

**************************************************************************
  FLOW PROCESS FROM NODE    155.00 TO NODE    160.00 IS CODE =  31
--------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   329.54  DOWNSTREAM(FEET) =   329.52
  FLOW LENGTH(FEET) =     4.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  14.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.57
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.53
  PIPE TRAVEL TIME(MIN.) =   0.01    Tc(MIN.) =   10.77
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    160.00 =     953.00 FEET.

**************************************************************************
  FLOW PROCESS FROM NODE    160.00 TO NODE    160.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==========================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.77
  RAINFALL INTENSITY(INCH/HR) =   4.98
  TOTAL STREAM AREA(ACRES) =     5.29
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     15.53

**************************************************************************
  FLOW PROCESS FROM NODE    165.00 TO NODE    170.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    85.00
  UPSTREAM ELEVATION(FEET) =    403.80
  DOWNSTREAM ELEVATION(FEET) =    386.40
  ELEVATION DIFFERENCE(FEET) =     17.40
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.930
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.68
  TOTAL AREA(ACRES) =      0.18   TOTAL RUNOFF(CFS) =      0.68
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    165.00 TO NODE    170.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  USER SPECIFIED Tc(MIN.) =    5.000
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  SUBAREA RUNOFF(CFS) =      0.68
  TOTAL AREA(ACRES) =      0.18   TOTAL RUNOFF(CFS) =      0.68

****************************************************************************
  FLOW PROCESS FROM NODE    170.00 TO NODE    175.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    386.40  DOWNSTREAM(FEET) =    356.80
  CHANNEL LENGTH THRU SUBAREA(FEET) =   338.00   CHANNEL SLOPE =  0.0876
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.447
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6300
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.94
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.54
  AVERAGE FLOW DEPTH(FEET) =   0.12   TRAVEL TIME(MIN.) =   2.22
  Tc(MIN.) =    7.22
  SUBAREA AREA(ACRES) =     1.11       SUBAREA RUNOFF(CFS) =    4.51
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.606
  TOTAL AREA(ACRES) =        1.3         PEAK FLOW RATE(CFS) =       5.04

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.16   FLOW VELOCITY(FEET/SEC.) =   2.95
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    175.00 =     784.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    175.00 TO NODE    160.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   354.30  DOWNSTREAM(FEET) =   329.52
  FLOW LENGTH(FEET) =   442.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   6.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.82
```

```
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.04
  PIPE TRAVEL TIME(MIN.) =   0.53    Tc(MIN.) =    7.75
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    160.00 =    1226.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    160.00 TO NODE    160.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.75
  RAINFALL INTENSITY(INCH/HR) =   6.16
  TOTAL STREAM AREA(ACRES) =     1.29
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      5.04

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       15.53    10.77        4.980          5.29
      2        5.04     7.75        6.157          1.29

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       16.22     7.75       6.157
      2       19.61    10.77       4.980

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      19.61   Tc(MIN.) =   10.77
  TOTAL AREA(ACRES) =        6.6
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    160.00 =    1226.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    160.00 TO NODE    180.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   329.52  DOWNSTREAM(FEET) =   329.48
  FLOW LENGTH(FEET) =     9.00   MANNING'S N =  0.009
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  18.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.48
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      19.61
```

```
  PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =   10.79
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    180.00 =    1235.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    180.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.79
  RAINFALL INTENSITY(INCH/HR) =   4.97
  TOTAL STREAM AREA(ACRES) =     6.58
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     19.61

****************************************************************************
  FLOW PROCESS FROM NODE    185.00 TO NODE    190.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    80.00
  UPSTREAM ELEVATION(FEET) =    379.00
  DOWNSTREAM ELEVATION(FEET) =    366.30
  ELEVATION DIFFERENCE(FEET) =     12.70
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.783
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.08
  TOTAL AREA(ACRES) =      0.02   TOTAL RUNOFF(CFS) =      0.08

****************************************************************************
  FLOW PROCESS FROM NODE    185.00 TO NODE    190.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4600
  S.C.S. CURVE NUMBER (AMC II) =   0
  USER SPECIFIED Tc(MIN.) =    5.000
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  8.168
  SUBAREA RUNOFF(CFS) =      0.11
  TOTAL AREA(ACRES) =      0.03   TOTAL RUNOFF(CFS) =      0.11

****************************************************************************
  FLOW PROCESS FROM NODE    190.00 TO NODE    195.00 IS CODE =  51
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    366.30  DOWNSTREAM(FEET) =    355.50
  CHANNEL LENGTH THRU SUBAREA(FEET) =   242.00   CHANNEL SLOPE =  0.0446
  CHANNEL BASE(FEET) =    3.00   "Z" FACTOR =  50.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.507
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8200
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.32
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.91
  AVERAGE FLOW DEPTH(FEET) =   0.04   TRAVEL TIME(MIN.) =   2.11
  Tc(MIN.) =    7.11
  SUBAREA AREA(ACRES) =     0.08       SUBAREA RUNOFF(CFS) =    0.43
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.722
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.52

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.05   FLOW VELOCITY(FEET/SEC.) =   1.96
  LONGEST FLOWPATH FROM NODE    185.00 TO NODE    195.00 =     377.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    195.00 TO NODE    200.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  3 USED)<<<<<
==============================================================================
  UPSTREAM ELEVATION(FEET) =  355.50  DOWNSTREAM ELEVATION(FEET) =  337.11
  STREET LENGTH(FEET) =   446.00   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 20.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.20
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.22
    HALFSTREET FLOOD WIDTH(FEET) =    4.85
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.39
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.76
  STREET FLOW TRAVEL TIME(MIN.) =   2.19   Tc(MIN.) =    9.31
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.471
```

```
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .8300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.801
  SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    1.36
  TOTAL AREA(ACRES) =        0.4        PEAK FLOW RATE(CFS) =       1.80

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.25   HALFSTREET FLOOD WIDTH(FEET) =   6.12
  FLOW VELOCITY(FEET/SEC.) =  3.65   DEPTH*VELOCITY(FT*FT/SEC.) =   0.91
  LONGEST FLOWPATH FROM NODE    185.00 TO NODE    200.00 =     823.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.31
  RAINFALL INTENSITY(INCH/HR) =   5.47
  TOTAL STREAM AREA(ACRES) =     0.41
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.80

  ** CONFLUENCE DATA **
  STREAM     RUNOFF        Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       19.61    10.79        4.974          6.58
      2        1.80     9.31        5.471          0.41

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF       Tc       INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       19.62     9.31       5.471
      2       21.24    10.79       4.974

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      21.24   Tc(MIN.) =   10.79
  TOTAL AREA(ACRES) =        7.0
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    180.00 =    1235.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    200.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================
```

```
  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF       Tc       INTENSITY     AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)   (ACRE)
      1       21.24    10.79        4.974        6.99
  LONGEST FLOWPATH FROM NODE    165.00 TO NODE    200.00 =    1235.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF       Tc       INTENSITY     AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)   (ACRE)
      1        3.75     9.56        5.377        0.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    200.00 =     643.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc       INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      22.57       9.56        5.377
      2      24.71      10.79        4.974

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      24.71   Tc(MIN.) =   10.79
  TOTAL AREA(ACRES) =        7.9
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        7.9  TC(MIN.) =     10.79
  PEAK FLOW RATE(CFS)   =      24.71
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

3.5 Hydromodification Management

To satisfy the requirements of the MS4 Permit, a hydromodification management strategy has been developed for the project based on the Final Hydromodification Management Plan dated March 2011, (Final HMP). A continuous simulation model, the Environmental Protection Agency (EPA) Storm Water Management Model (SWMM) version 5.1, was selected to size mitigation measures. The SWMM model is capable of modeling hydromodification management facilities to mitigate the effects of increased runoff from the post-development conditions and use changes that may cause negative impacts (i.e. erosion) to downstream channels. For HMP calculations refer to the report titled "Priority Development Project Storm Water Quality Management Plan for "Melrose and Matagual" dated November 2022, prepared by Pasco Laret Suiter & Associates.

3.6 Storm Water Pollutant Control

To meet the requirements of the MS4 Permit, the Storm Gardens are designed to treat onsite storm water pollutants for the 24-hour, 85th percentile storm event. For detailed pollutant control calculations refer to the report "Priority Development Project Storm Water Quality Management Plan for "Melrose and Matagual" dated November 2022, prepared by Pasco Laret Suiter & Associates.

APPENDIX A

Hydrology Support Material

Melrose and Matagual
3684
11/22/2022

Existing Condition						
Basin ID	Total Area (ac)	Impervious Area (Soil C) (sq-ft)	Pervious Area (Soil C) (sq-ft)	% Impervious	% Pervious	Weighted Runoff Coef C:
1.0	0.21	0	9,001	0%	100%	0.35
1.1	1.58	35,168	33,813	51%	49%	0.63
1.2	0.46	19,207	968	95%	5%	0.87
2.0	0.19	0	8,182	0%	100%	0.35
2.1	5.21	81,119	145,666	36%	64%	0.55
2.2	0.30	5,476	7,680	42%	58%	0.58
Total	**7.95**	**140,970**	**205,310**			

Runoff Coefficient Table	
Soil Type	D
Impervious	0.90
Pervious	0.35

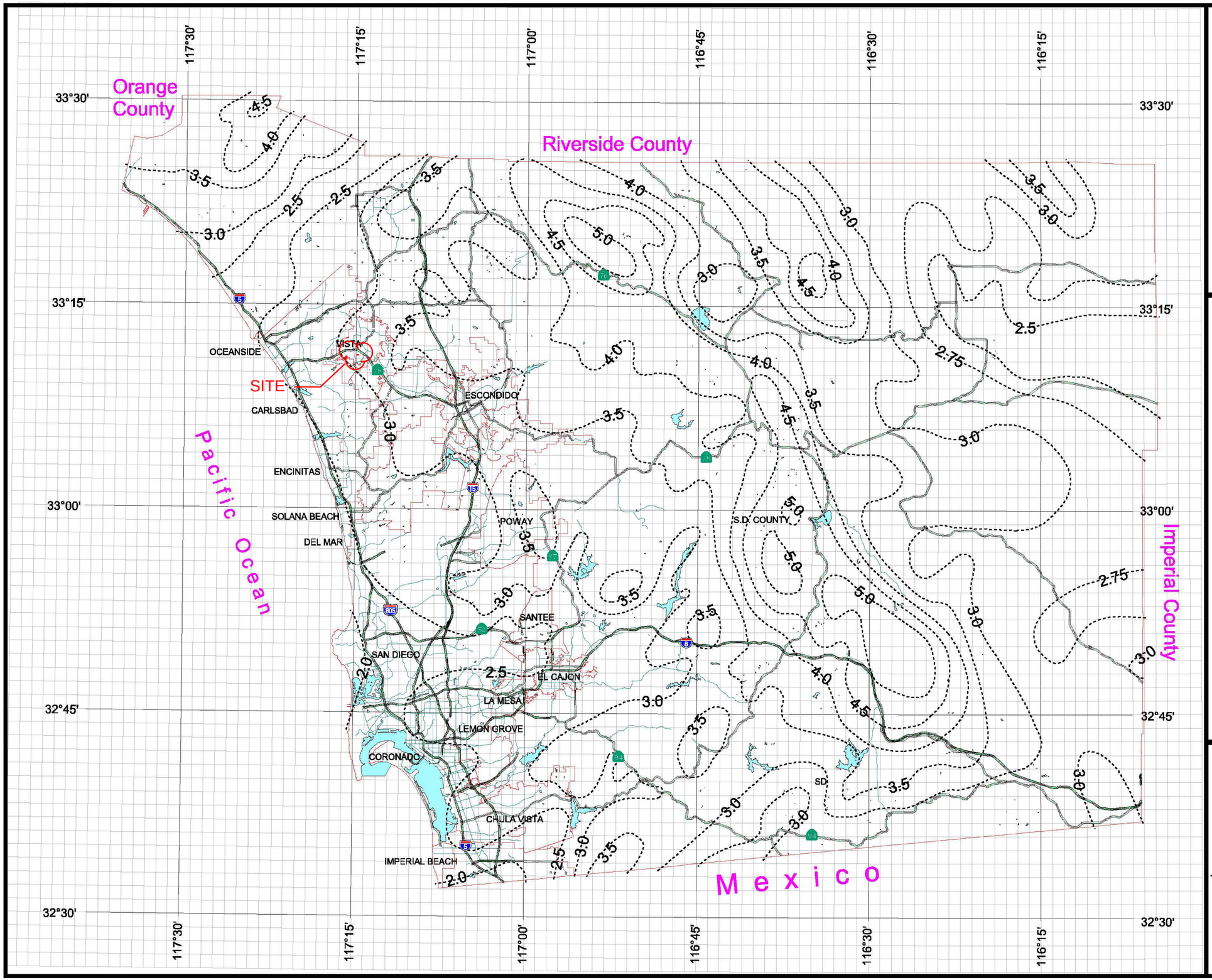
Proposed Condition						
Basin ID	Total Area (ac)	Impervious Area (Soil C) (sq-ft)	Pervious Area (Soil C) (sq-ft)	% Impervious	% Pervious	Weighted Runoff Coef C:
1.0	0.11	0	4,757	0%	100%	0.35
1.1	0.36	9,062	6,425	59%	41%	0.67
1.2	0.50	20,798	1,108	95%	5%	0.87
2.0	0.14	1,490	4,732	24%	76%	0.48
2.1	2.42	59,287	46,099	56%	44%	0.66
3.0	0.12	57	5,130	1%	99%	0.36
3.1	2.60	57,632	55,744	51%	49%	0.63
4.0	0.18	1,623	6,238	21%	79%	0.46
4.1	1.11	24,344	24,147	50%	50%	0.63
5.0	0.03	227	869	21%	79%	0.46
5.1	0.07	2,783	455	86%	14%	0.82
5.2	0.30	11,516	1,756	87%	13%	0.83
Total	**7.95**	**188,819**	**157,460**			
Total Onsite (2.0, 2.1, 3.0, 3.1)	5.28	118,466	111,705	51%	49%	0.633

County of San Diego Hydrology Manual

Rainfall Isopluvials

100 Year Rainfall Event - 6 Hours

Isopluvial (inches)



DPW GIS
Department of Public Works
Geographic Information Services

SanGIS
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N W E S

3 0 3 Miles

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for San Diego County Area, California

January 26, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Map Scale: 1:1,610 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
Survey Area Data: Version 16, Sep 13, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 24, 2020—Feb 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BsD	Bosanko clay, 9 to 15 percent slopes	D	0.4	7.9%
BsE	Bosanko clay, 15 to 30 percent slopes	D	1.4	25.8%
PeC2	Placentia sandy loam, 5 to 9 percent slopes, eroded	D	3.6	66.2%
Totals for Area of Interest			**5.5**	**100.0%**

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

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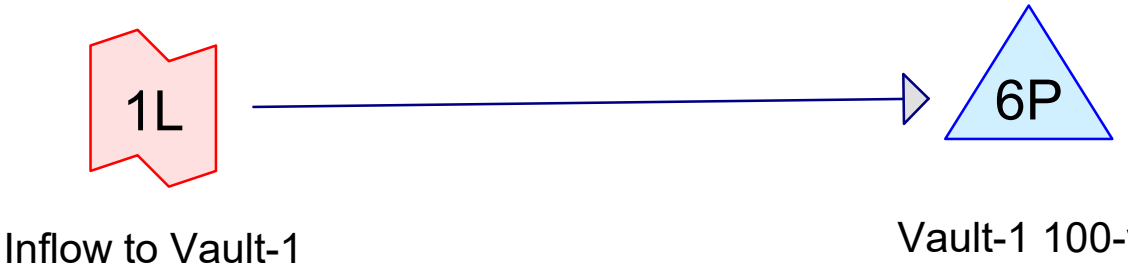
APPENDIX B

Detention Support Material



Subcat Reach Pond Link

Routing Diagram for 3684
Prepared by Pasco Laret Suiter & Associates, Printed 3/9/2022
HydroCAD® 10.10-7a s/n 10097 © 2021 HydroCAD Software Solutions LLC

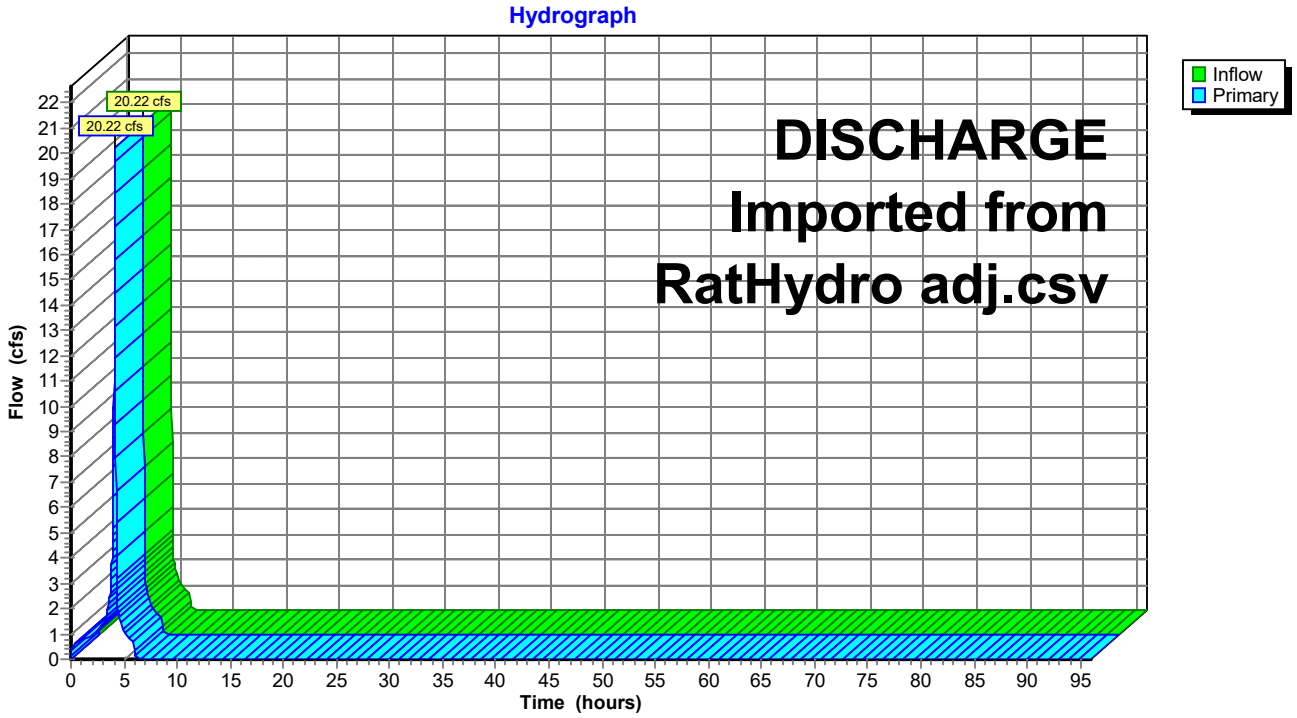
Summary for Link 1L: Inflow to Vault-1

Inflow = 20.22 cfs @ 4.13 hrs, Volume= 0.859 af
Primary = 20.22 cfs @ 4.13 hrs, Volume= 0.859 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 6P : Vault-1 100-yr

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

DISCHARGE Imported from RatHydro adj.csv

Link 1L: Inflow to Vault-1



Summary for Pond 6P: Vault-1 100-yr

Inflow	=	20.22 cfs @	4.13 hrs,	Volume=	0.859 af
Outflow	=	15.53 cfs @	4.17 hrs,	Volume=	0.859 af, Atten= 23%, Lag= 2.5 min
Primary	=	15.53 cfs @	4.17 hrs,	Volume=	0.859 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Peak Elev= 106.55' @ 4.17 hrs Surf.Area= 3,200 sf Storage= 19,898 cf

Plug-Flow detention time= 231.1 min calculated for 0.859 af (100% of inflow)
Center-of-Mass det. time= 231.1 min (445.5 - 214.5)

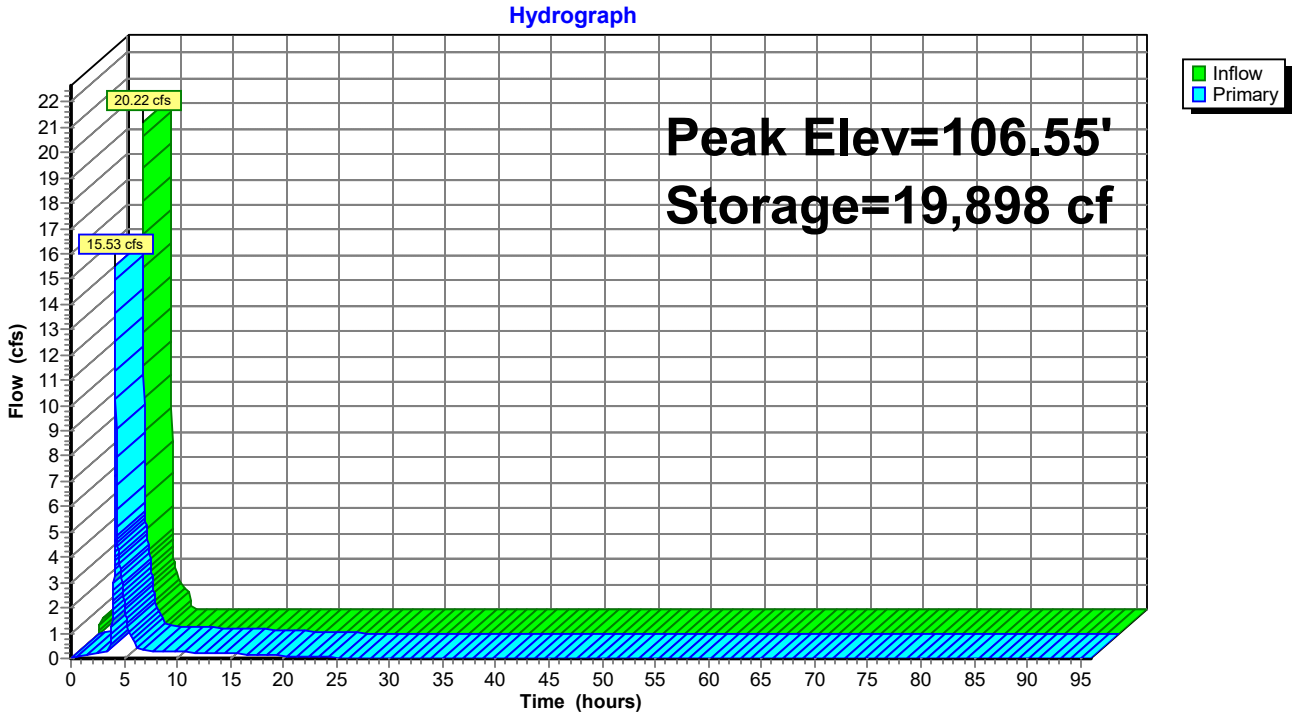
Volume	Invert	Avail.Storage	Storage Description
#1	100.00'	20,520 cf	**Custom Stage Data (Conic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
100.00	3,200	0.0	0	0	3,200
101.00	3,200	95.0	3,040	3,040	3,401
102.00	3,200	95.0	3,040	6,080	3,601
103.00	3,200	95.0	3,040	9,120	3,802
104.00	3,200	95.0	3,040	12,160	4,002
105.00	3,200	95.0	3,040	15,200	4,203
106.00	3,200	95.0	3,040	18,240	4,403
106.75	3,200	95.0	2,280	20,520	4,554

Device	Routing	Invert	Outlet Devices
#1	Primary	100.00'	**24.00" Round Culvert** L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 100.00' / 99.90' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	100.00'	**2.50" Vert. Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	104.00'	**18.00" W x 5.00" H Vert. Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 1	106.25'	**Custom Weir, Cv= 2.62 (C= 3.28)** Head (feet) 0.00 0.50 0.50 Width (feet) 20.00 20.00 0.00

Primary OutFlow Max=15.41 cfs @ 4.17 hrs HW=106.54' (Free Discharge)
└**1=Culvert** (Passes 15.41 cfs of 44.52 cfs potential flow)
  ├**2=Orifice** (Orifice Controls 0.42 cfs @ 12.22 fps)
  ├**3=Orifice** (Orifice Controls 4.60 cfs @ 7.35 fps)
  └**4=Custom Weir** (Weir Controls 10.39 cfs @ 1.77 fps)

Pond 6P: Vault-1 100-yr



RATIONAL METHOD HYDROGRAPH PROGRAM
COPYRIGHT 1992, 2001 RICK ENGINEERING COMPANY

RUN DATE 3/8/2022
HYDROGRAPH FILE NAME Text1
TIME OF CONCENTRATION 8 MIN.
6 HOUR RAINFALL 3.1 INCHES
BASIN AREA 5.29 ACRES
RUNOFF COEFFICIENT 0.633
PEAK DISCHARGE 20.23 CFS

TIME (MIN) = 0	DISCHARGE (CFS) = 0
TIME (MIN) = 8	DISCHARGE (CFS) = 0.6
TIME (MIN) = 16	DISCHARGE (CFS) = 0.6
TIME (MIN) = 24	DISCHARGE (CFS) = 0.6
TIME (MIN) = 32	DISCHARGE (CFS) = 0.7
TIME (MIN) = 40	DISCHARGE (CFS) = 0.7
TIME (MIN) = 48	DISCHARGE (CFS) = 0.7
TIME (MIN) = 56	DISCHARGE (CFS) = 0.7
TIME (MIN) = 64	DISCHARGE (CFS) = 0.7
TIME (MIN) = 72	DISCHARGE (CFS) = 0.8
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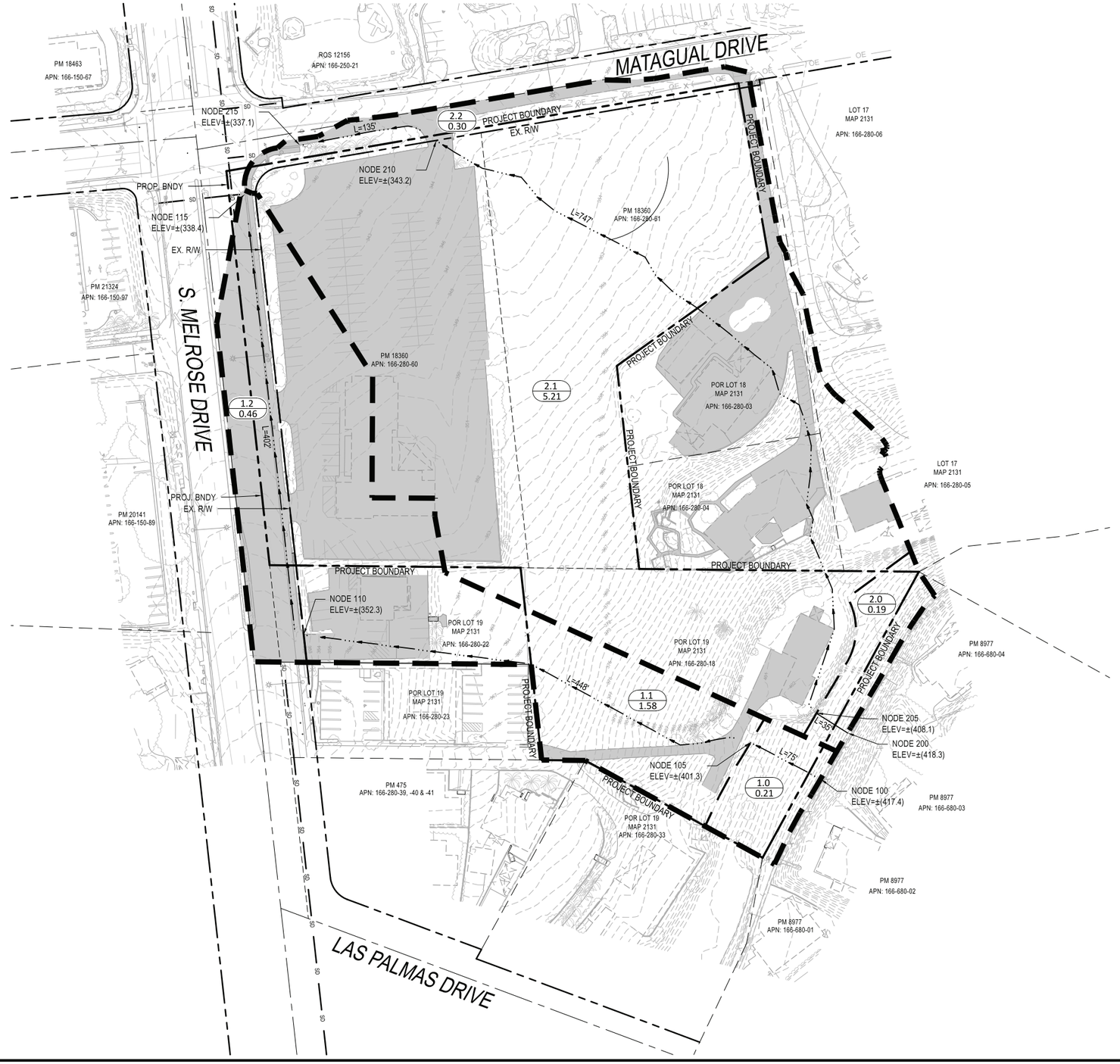
TIME (MIN) = 88	DISCHARGE (CFS) = 0.8
TIME (MIN) = 96	DISCHARGE (CFS) = 0.8
TIME (MIN) = 104	DISCHARGE (CFS) = 0.9
TIME (MIN) = 112	DISCHARGE (CFS) = 0.9
TIME (MIN) = 120	DISCHARGE (CFS) = 0.9
TIME (MIN) = 128	DISCHARGE (CFS) = 1
TIME (MIN) = 136	DISCHARGE (CFS) = 1
TIME (MIN) = 144	DISCHARGE (CFS) = 1.1
TIME (MIN) = 152	DISCHARGE (CFS) = 1.1
TIME (MIN) = 160	DISCHARGE (CFS) = 1.2
TIME (MIN) = 168	DISCHARGE (CFS) = 1.3
TIME (MIN) = 176	DISCHARGE (CFS) = 1.3
TIME (MIN) = 184	DISCHARGE (CFS) = 1.5
TIME (MIN) = 192	DISCHARGE (CFS) = 1.6
TIME (MIN) = 200	DISCHARGE (CFS) = 1.8
TIME (MIN) = 208	DISCHARGE (CFS) = 2
TIME (MIN) = 216	DISCHARGE (CFS) = 2.4
TIME (MIN) = 224	DISCHARGE (CFS) = 2.7
TIME (MIN) = 232	DISCHARGE (CFS) = 4
TIME (MIN) = 240	DISCHARGE (CFS) = 5.6
TIME (MIN) = 248	DISCHARGE (CFS) = 20.23
TIME (MIN) = 256	DISCHARGE (CFS) = 3.2
TIME (MIN) = 264	DISCHARGE (CFS) = 2.1
TIME (MIN) = 272	DISCHARGE (CFS) = 1.7
TIME (MIN) = 280	DISCHARGE (CFS) = 1.4
TIME (MIN) = 288	DISCHARGE (CFS) = 1.2
TIME (MIN) = 296	DISCHARGE (CFS) = 1.1
TIME (MIN) = 304	DISCHARGE (CFS) = 1
TIME (MIN) = 312	DISCHARGE (CFS) = 0.9
TIME (MIN) = 320	DISCHARGE (CFS) = 0.8
TIME (MIN) = 328	DISCHARGE (CFS) = 0.8
TIME (MIN) = 336	DISCHARGE (CFS) = 0.7
TIME (MIN) = 344	DISCHARGE (CFS) = 0.7
TIME (MIN) = 352	DISCHARGE (CFS) = 0.7
TIME (MIN) = 360	DISCHARGE (CFS) = 0.6
TIME (MIN) = 368	DISCHARGE (CFS) = 0

APPENDIX C

Existing and Proposed Hydrology Maps

PRE-PROJECT HYDROLOGY MAP

MELROSE & MATAGUAL



LEGEND

- MAJOR BASIN BOUNDARY
- MINOR BASIN BOUNDARY
- FLOW PATH
- HYDROLOGIC NODE ELEVATION AT NODE — NODE # / ELEV
- HYDROLOGIC SUB-BASIN NUMBER / HYDROLOGIC AREA (ACRES) — 1.0 / 0.23
- IMPERVIOUS AREA — 3.24 AC (140,970 SF)
- PERVIOUS AREA — 4.71 AC (205,310 SF)
- TOTAL AREA — 7.95 AC (346,280 SF)

0 50 100 150

SCALE: 1" = 50'

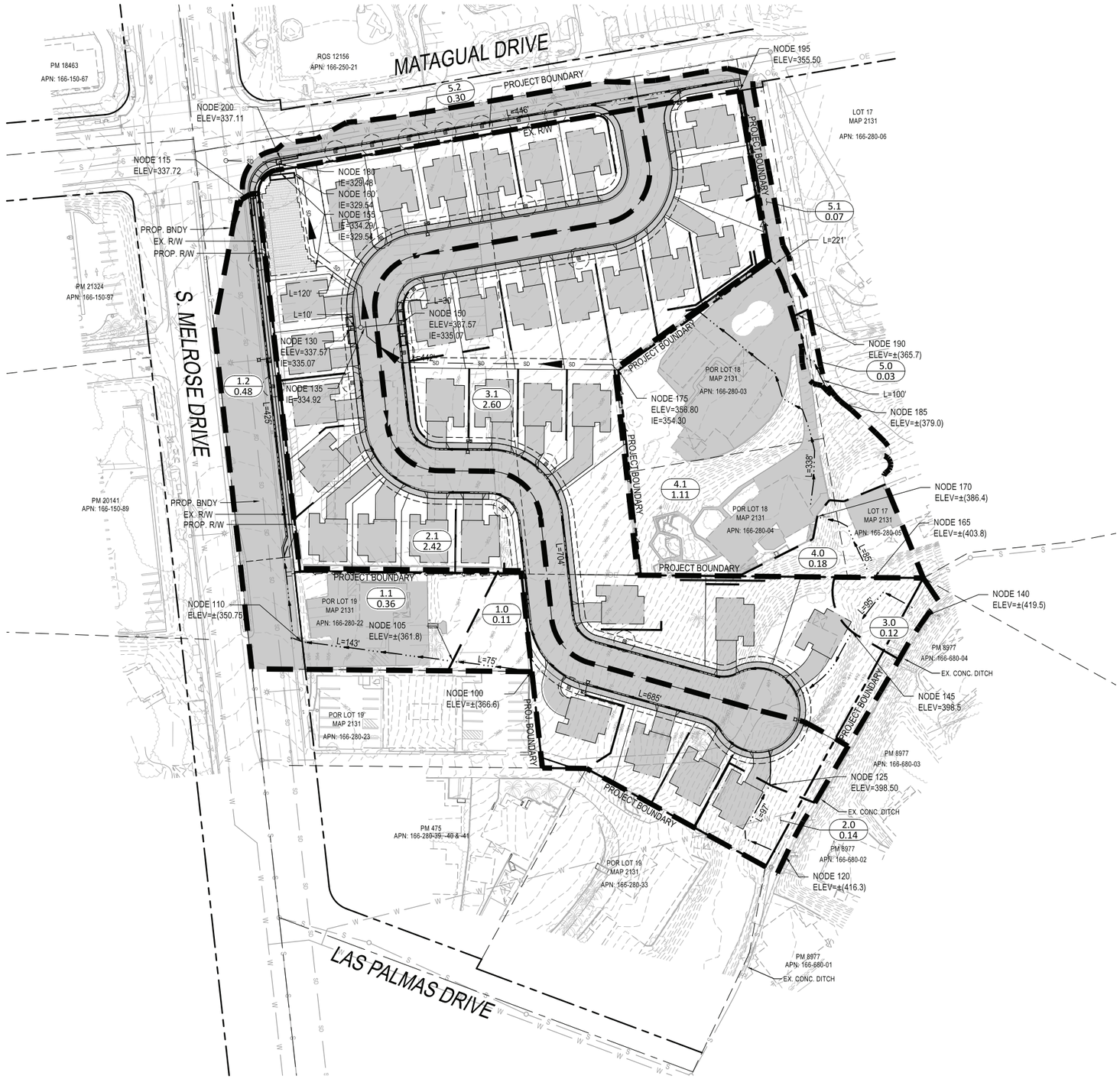
PRE-PROJECT HYDROLOGY MAP
MELROSE & MATAGUAL
CITY OF SAN MARCOS

PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

SAVE DATE: 03/08/22 ~ PLOT DATE: 03/11/22 ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\HYDROLOGY\Appendix C - Pre and Post Maps\3684-HYDRO-Existing Condition Drainage Exhibit.dwg

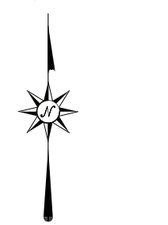
POST-PROJECT HYDROLOGY MAP

MELROSE & MATAGUAL



LEGEND

MAJOR BASIN BOUNDARY	
MINOR BASIN BOUNDARY	
FLOW PATH	
UNDERGROUND PIPE DRAINAGE PATH	
HYDROLOGIC NODE ELEVATION AT NODE	NODE # ELEV
HYDROLOGIC SUB-BASIN NUMBER HYDROLOGIC AREA (ACRES)	1.0 / 0.23
IMPERVIOUS AREA	4.33 AC (188,819 SF)
PERVIOUS AREA	3.61 AC (157,460 SF)
TOTAL AREA	7.95 AC (346,279 SF)



0 50 100 150

SCALE: 1" = 50'

POST-PROJECT HYDROLOGY MAP
MELROSE & MATAGUAL
CITY OF SAN MARCOS

PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

SAVE DATE: 11/21/22 - PLOT DATE: 11/21/22 - FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\HYDROLOGY\Appendix C- Pre and Post Maps\3684HYDRO-Proposed Condition Drainage Exhibit.dwg

Appendix H

Stormwater Quality Management Plan

Project Number(s): PC P22-0218 LD _____ GP _____

PRIORITY DEVELOPMENT PROJECT

STORM WATER QUALITY MANAGEMENT PLAN (SWQMP)
FOR

MELROSE AND MATAGUAL
APN 166-280-18, 166-280-60, 166-280-61

PREPARED FOR:
TTLC VISTA MELROSE, LLC
CONTACT: GORDON JONES
4350 VON KARMAN AVENUE, SUITE 200
NEWPORT BEACH, CA 92660
[INSERT EMAIL]

PREPARED: MAY 2022
REVISED: SEPTEMBER 2022
REVISED: NOVEMBER 2022

NOTE: This Priority Development Project SWQMP Template and Instructions are offered as a tool to assist users in complying with RWQCB Order No. R9-2015-0001 (Permit), and is not intended to warrant or guarantee Permit compliance, which is the independent and sole responsibility of the user. This template is subject to revision without notice, at any time.

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ENGINEER OF WORK CERTIFICATION STATEMENT

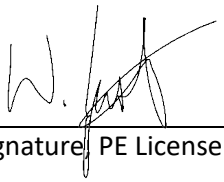
Preparer's Certification

I hereby declare that I am the Engineer in Responsible Charge of design of storm water best management practices (BMPs) for this project, and that I have exercised responsible charge over the design of the BMPs as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the PDP requirements of the City of Vista BMP Design Manual, which is a design manual for compliance with local City and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2015-0100) requirements for storm water management.

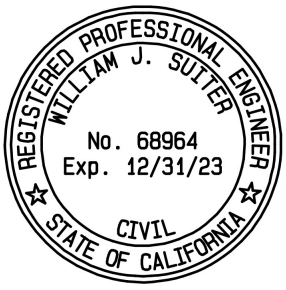
I have read and understand that the City Engineer has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the BMP Design Manual. I certify that this PDP SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this PDP SWQMP by the City Engineer is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

SWQMP PREPARED BY:

William J. Suiter
Pasco Laret Suiter & Associates
27127 Calle Arroyo, Suite 1904
San Juan Capistrano, CA 92675
949-661-6695
jsuiter@plsaengineering.com
RCE 68964
12-31-23



Signature, PE License Number & Expiration Date



William Justin Suiter
Print Name

3/15/2023
Date

PROJECT OWNER CERTIFICATION STATEMENT

Owners Certification

This PDP SWQMP has been prepared for Greg Perrine by Pasco Laret Suiter & Associates. The PDP SWQMP is intended to comply with the PDP requirements of the City of Vista BMP Design Manual, which is a design manual for compliance with local City and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2015-0100) requirements for storm water management.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan. Once the undersigned transfers its interests in the property, its successor-in-interest shall bear the aforementioned responsibility to implement the best management practices (BMPs) described within this plan, including ensuring on-going operation and maintenance of structural BMPs. A signed copy of this document shall be available on the subject property into perpetuity.

OWNER DETAILS:
TTLC VISTA MELROSE, LLC
CONTACT: GORDON JONES
4350 VON KARMAN AVENUE, SUITE 200
NEWPORT BEACH, CA 92660

Project Owner's Signature

Gordon Jones
Print Name

Date

PROJECT OWNER CERTIFICATION STATEMENT

Owners Certification

This PDP SWQMP has been prepared for Greg Perrine by Pasco Laret Suiter & Associates. The PDP SWQMP is intended to comply with the PDP requirements of the City of Vista BMP Design Manual, which is a design manual for compliance with local City and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2015-0100) requirements for storm water management.

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OWNER DETAILS:
TTLC VISTA MELROSE, LLC
CONTACT: GORDON JONES
4350 VON KARMAN AVENUE, SUITE 200
NEWPORT BEACH, CA 92660

Gordon Jones (Mar 22, 2023 16:01 PDT)

Project Owner's Signature

Gordon Jones

Print Name

Mar 22, 2023

Date

SWQMP VM

Final Audit Report 2023-03-22

Created:	2023-03-22
By:	Michael Torres (mtorres@thetruelifecompanies.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAxqHRC4_nqTqdwXnH4IXCNOebeh9cBuhD

"SWQMP VM" History

Document created by Michael Torres (mtorres@thetruelifecompanies.com)
2023-03-22 - 10:56:38 PM GMT- IP address: 72.197.149.161

Document emailed to Gordon Jones (GJones@thetruelifecompanies.com) for signature
2023-03-22 - 10:57:15 PM GMT

Email viewed by Gordon Jones (GJones@thetruelifecompanies.com)
2023-03-22 - 11:00:18 PM GMT- IP address: 76.169.236.51

Document e-signed by Gordon Jones (GJones@thetruelifecompanies.com)
Signature Date: 2023-03-22 - 11:01:07 PM GMT - Time Source: server- IP address: 76.169.236.51

Agreement completed.
2023-03-22 - 11:01:07 PM GMT

Names and email addresses are entered into the Acrobat Sign service by Acrobat Sign users and are unverified unless otherwise noted.

CITY OF VISTA STAFF REVIEW

Reviewed and Approved:	
City Staff Signature:	Date:

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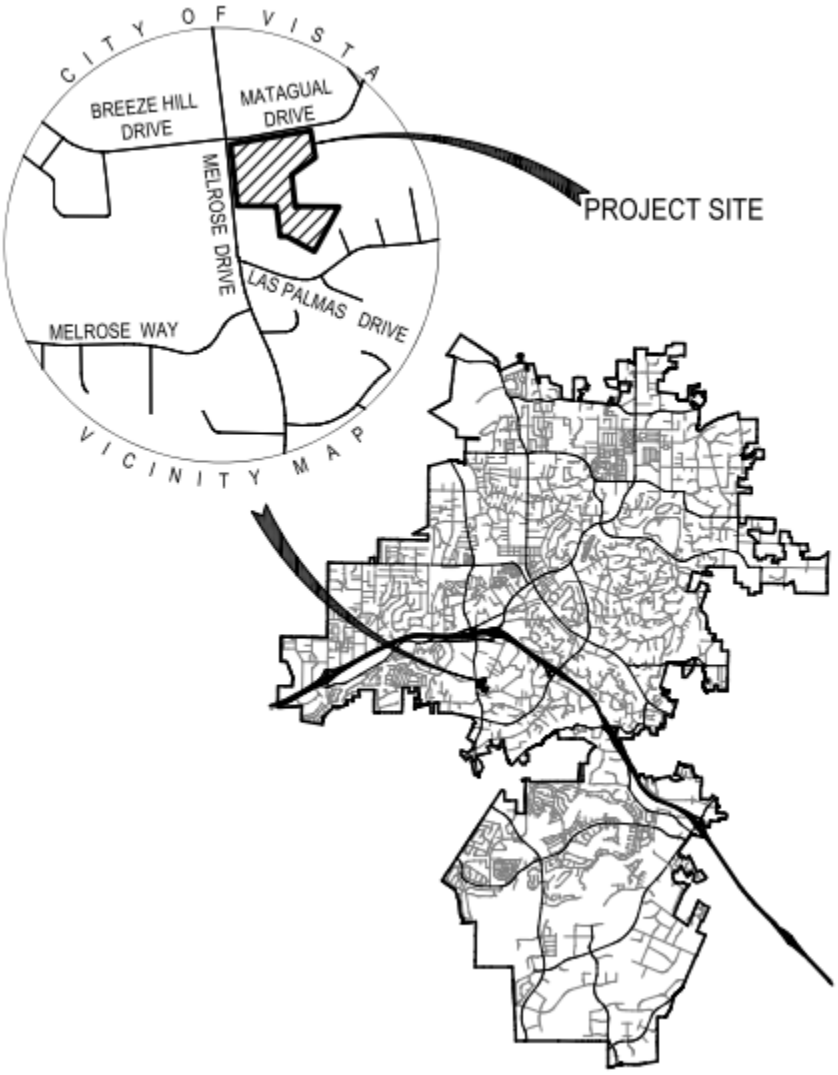
PROJECT VICINITY MAP

Project Name: Melrose and Matagual

Permit Application Number: P22-0218

Insert Project Vicinity Map Below:



FORM 1 – PROJECT CATEGORY DETERMINATION CHECKLIST

This form is used to assess stormwater BMP requirements applicable to the proposed project. The form is available as a stand-alone fillable checklist on the City's website and a completed copy must be included with the final SWQMP submitted to the City. The form is available at:

http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms

FORM 2 – PROJECT OVERVIEW

Page 1 of 11

Project Name	MELROSE AND MATAGUAL
Project Address	
Assessor's Parcel Number(s) (APN(s))	APN 166-280-18, 166-280-60, 166-280-61
Permit Application Number	P22-0218
Watershed *(select <u>one</u> checkbox; use webpage below to determine watershed)* http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms	
San Luis Rey	☐ Lower San Luis Rey – Mission, 903.11
Carlsbad	☐ Loma Alta – Loma Alta, 904.10 ☐ Buena Vista – El Salto, 904.21 ☒ Buena Vista – Vista, 904.22 ☐ Agua Hedionda – Los Monos, 904.31 ☐ Agua Hedionda – Buena, 904.32 ☐ San Marcos – Batiquitos, 904.51
Parcel Area (total area of Assessor's Parcel(s) associated with the project)	5.55 Acres (241,689 Square Feet)
Area to be Disturbed by the Project (Project Area)	5.67 Acres (246,871 Square Feet)
Project Proposed Impervious Area (subset of Project Area)	3.12* Acres (135,819* Square Feet)
Project Proposed Pervious Area (subset of Project Area)	2.56* Acres (111,052** Square Feet)
Undisturbed Offsite Area Draining to BMPs	0.10* Acres (4,497 Square Feet)
<u>NOTE</u>: Proposed Impervious Area + Proposed Pervious Area = Area to be Disturbed by the Project. This may be less than the Parcel Area.	

*120,572 SF Impervious Area On-Site + 15,247 SF Impervious Are Off-Site = 135,819 SF Impervious Area

**107,180 SF Proposed Pervious Area On-Site + 3,872 SF Pervious Area Off-Site = 111,052 SF Pervious Area

Form 2, Page 2 of 11

DESCRIPTION OF EXISTING SITE CONDITIONS

Current Status of the Site (select all that apply and describe below):

- ☒ Existing development
- ☐ Previously graded but not built out
- ☐ Demolition completed without new construction
- ☐ Agricultural or other non-impervious use
- ☒ Vacant, undeveloped/natural

Describe:
In the existing condition APN 166-280-18 consists of a single-family home and vacant undeveloped area, APN 166-280-60 consists of a church building and parking lot, and APN 166-280-61 consists of a vacant undeveloped parcel.

Existing Land Cover Includes (select all that apply and describe below):

- ☒ Vegetative Cover 2.60 Acres (113,462 Square Feet)
- ☐ Non-Vegetated Pervious Areas Acres (Square Feet)
- ☒ Impervious Areas 2.67 Acres (116,287 Square Feet)

Describe:

Underlying Soil belongs to Hydrologic Soil Group (select all that apply):

- ☐ NRCS Type A
- ☐ NRCS Type B
- ☐ NRCS Type C
- ☒ NRCS Type D

Approximate Depth to Groundwater (GW):

- ☐ GW Depth < 5 feet
- ☐ 5 feet < GW Depth < 10 feet
- ☐ 10 feet < GW Depth < 20 feet
- ☒ GW Depth > 20 feet

Existing Natural Hydrologic Features (select all that apply and describe in next section):

- ☐ Drainage ditch/Swale/Waterway
- ☐ Seeps
- ☐ Springs
- ☐ Wetlands
- ☒ None

Form 2, Page 3 of 11

DESCRIPTION OF EXISTING SITE DRAINAGE PATTERNS

How is storm water runoff conveyed from the site? At a minimum, this description should answer:

1. Is existing site drainage conveyance natural or improved storm drain (urbanized);
2. Is runoff from offsite conveyed through the site? If yes, quantify all offsite drainage areas, design flows, and locations where offsite flows enter the project site, and summarize how such flows are conveyed through the site;
3. Provide details regarding existing project site drainage conveyance network, including any existing storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels; and
4. Identify all discharge locations from the existing project site along with a summary of conveyance system size and capacity for each of the discharge locations. Provide summary of the pre-project drainage areas and design flows to each of the existing runoff discharge locations.

Describe existing site drainage patterns:

In the existing condition APN 166-280-18 consists of a single-family home with an asphalt paved driveway and vacant undeveloped area, APN 166-280-60 consists of a church building and parking lot, and APN 166-280-61 consists of a vacant undeveloped parcel.

Storm water runoff flows overland from the Southeast to the Northwest in the existing drainage pattern. The table below summarizes the existing condition hydrologic data.

Summary of Existing Condition 100-yr Peak Discharge Rates

Discharge Node	Area (ac)	Q100 (cfs)
115 & 215	7.95	25.07

For detailed calculations refer to the drainage report for the project titled “Hydrology Study for Melrose & Matagual” prepared by Pasco Laret Suiter & Associates dated November 2022.

Form 2, Page 4 of 11

DESCRIPTION OF PROPOSED SITE DEVELOPMENT

Project Description / Proposed Land Use and/or Activities:

The project proposes to demolish the existing single-family residence, church building, parking lot, and associated hardscape improvements. The project will consist of 34 single-family detached homes, a new private street, curb & gutter, sidewalk, graded pads, drainage appurtenances, landscape, associated utilities, StormGarden Biofiltration Systems (BMPs) to meet the requirements for pollutant control, and Rtank underground storage facility (BMP) to meet the requirements for hydromodification management flow control and to mitigate for the 100-year 6-hour storm event.

Offsite improvements on Matagual Drive include constructing sidewalk, curb and gutter along the southerly side. Offsite improvements on S. Melrose Drive include half street full pavement section reconstruction, street widening, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. Offsite improvements on Matagual Drive include half street full pavement section reconstruction, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. The offsite improvements proposed require additional site design BMPs to satisfy pollutant control treatment, hydromodification management, and volume retention requirements, therefore tree wells are being proposed along the frontage of both Matagual Drive and S. Melrose Drive to meet the requirements. Two tree wells are proposed on S. Melrose Drive and seven tree wells are proposed on Matagual Drive.

List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards, athletic courts, other impervious features):

Proposed impervious features include residential structures, driveways, sidewalk and private street.

List/describe proposed pervious features of the project (e.g., landscape areas):

Proposed pervious features include landscape areas.

Does the project include grading and changes to site topography?

☒ Yes

☐ No

Describe:

Grading is proposed to accommodate the proposed lots, private street and storm drain system.

Form 2, Page 5 of 11

DESCRIPTION OF PROPOSED SITE DRAINAGE PATTERNS

Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?

☒ Yes

☐ No

If yes, provide details regarding the proposed project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels, and the method for conveying offsite flows through or around the proposed project site. Identify all discharge locations from the proposed project site along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide a summary of pre- and post-project drainage areas and design flows to each of the runoff discharge locations. Reference the drainage study for detailed calculations.

Describe proposed site drainage patterns:

The project proposes to demolish the existing single-family residence, church building, parking lot, and associated hardscape improvements. The project will consist of 34 single-family detached homes, a new private street, curb & gutter, sidewalk, graded pads, drainage appurtenances, landscape, associated utilities, and Stormgarden Biofiltration Systems & underground Rtank storage facility design for stormwater treatment, hydromodification management, and to mitigate for the 100-year 6-hour storm event.

In the proposed condition, onsite storm water runoff will flow northwesterly & be collected and conveyed into the proposed curb inlet type Stormgarden Biofiltration Systems (BMPs) which have been designed for pollutant control. Subsequently the runoff will discharge into a proposed Rtank underground storage facility (BMP) which has been designed to provide hydromodification management flow control and mitigation for the 100-year 6-hour storm event. The Rtank will discharge via proposed storm drain into the curb inlet on Matagual Drive.

The underground storm water storage facilities provide hydromodification management flow control. Refer to the continuous simulation analysis located in Attachment 2d. The storage facilities also provide mitigation for the 100-year 6-hour storm event. A detention analysis was performed to evaluate the effects of the storage facilities on the 100-year, 6-hour storm event peak discharge rates. The table below summarizes the proposed condition hydrologic data.

Summary of Proposed Condition 100-yr Peak Discharge Rates

Discharge Node	Area (ac)	Q100 (cfs) Undetained	Q100 (cfs) Detained
115/180/200	7.95	29.89	24.70

For detailed calculations refer to the drainage report for the project titled “Hydrology Study for Melrose & Matagual” prepared by Pasco Laret Suiter & Associates dated November 2022.

Offsite improvements on Matagual Drive include constructing sidewalk, curb and gutter along the southerly side. Offsite improvements on S. Melrose Drive include half street full pavement section reconstruction, street widening, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. Offsite improvements on Matagual Drive include half street full pavement section reconstruction, curb and gutter, sidewalk, parkway, curb inlet relocation, and storm drain lateral reconnection. The offsite improvements proposed require additional site design BMPs to satisfy pollutant control treatment, hydromodification management, and volume retention requirements, therefore tree wells are being proposed along the frontage of both Matagual Drive and S. Melrose Drive to meet the requirements. Two tree wells are proposed on S. Melrose Drive and seven tree wells are proposed on Matagual Drive.

Form 2, Page 6 of 11

POTENTIAL POLLUTANT SOURCE AREAS

Identify whether any of the following features, activities, and/or pollutant source areas will be present. Select all Pollutant Source Areas that apply and include them on the DMA Exhibit. Source control BMPs must be identified for each of these areas in Form 3 of this SWQMP:

☒ On-site storm drain inlets

☐ Sump pumps or French drains

☐ Interior or sub-surface parking garages

☐ Need for future indoor & structural pest control

☒ Landscape/outdoor pesticide use

☐ Pools, spas, ponds, decorative fountains, or other water features

☐ Food preparation and/or service

☐ Refuse/trash collection areas

☐ Industrial processes

☐ Outdoor storage of equipment, chemicals, or materials

☐ Vehicle and equipment cleaning

☐ Vehicle/equipment repair and maintenance

☐ Fuel dispensing areas

☐ Loading docks

☐ Fire sprinkler test and relief point

☐ Miscellaneous drain or wash down areas

☒ Plazas, sidewalks, and parking lots

Describe:

Form 2, Page 7 of 11

IDENTIFICATION AND NARRATIVE OF RECEIVING WATER AND POLLUTANTS OF CONCERN

Describe flow path of storm water from the project site discharge location(s), through urban storm conveyance systems as applicable, to receiving creeks, rivers, and lagoons as applicable, and ultimate discharge to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable):

Storm water that discharges the project site at the northwest corner flows northerly to the Buena Vista Creek. The Buena Vista Creek flows westerly and ultimately discharges to the Pacific Ocean.

List any 303(d) impaired water bodies within the path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable), identify the pollutant(s)/stressor(s) causing impairment, and identify any TMDLs and/or Highest Priority Pollutants from the WQIP for the impaired water bodies:

303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs / WQIP Highest Priority Pollutant
Buena Vista Creek	Benthic Community Effects, Bifenthrin, Selenium, Toxicity	TMDL required 2014-2016 per 303(d) list report

Identification of Project Site Pollutants*

***Identification of project site pollutants is only required if flow-thru treatment BMPs are implemented onsite in lieu of retention or biofiltration BMPs (note the project must also participate in an alternative compliance program unless prior lawful approval to meet earlier PDP requirements is demonstrated)**

Identify pollutants expected from the project site based on all proposed use(s) of the site (see BMP Design Manual Appendix B.6):

Pollutant	Not Applicable to the Project Site	Expected from the Project Site	Also a Receiving Water Pollutant of Concern
Sediment	☐	☐	☐
Nutrients	☐	☐	☐
Heavy Metals	☐	☐	☐
Organic Compounds	☐	☐	☐
Trash & Debris	☐	☐	☐

Oxygen Demanding Substances	☐	☐	☐
Oil & Grease	☐	☐	☐
Bacteria & Viruses	☐	☐	☐
Pesticides	☐	☐	☐

Form 2, Page 8 of 11

HYDROMODIFICATION MANAGEMENT REQUIREMENTS

Do hydromodification management requirements apply (see Section 1.6 of the BMP Design Manual; select one box and describe below)?

☒ Yes, hydromodification management flow control structural BMPs required.

☐ No, the project will discharge runoff directly to existing underground storm drains discharging directly to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.

☐ No, the project will discharge runoff directly to conveyance channels whose bed and bank are concrete-lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.

☐ No, the project will discharge runoff directly to an area identified as appropriate for an exemption by the WMAA for the watershed in which the project resides.

Describe:

Form 2, Page 9 of 11

CRITICAL COARSE SEDIMENT YIELD AREAS

**This section only required if hydromodification management requirements apply*

Based on the maps provided within the WMAA, do potential critical coarse sediment yield areas exist within the project drainage boundaries (select all that apply and describe below)? Additional signed and stamped reports must be provided to document any exemption from coarse sediment yield requirements.

☐ Yes

☒ No, No critical coarse sediment yield areas to be protected based on WMAA maps

If yes, have any of the optional analyses presented in Section 6.2 of the BMP Design Manual been performed?

☐ 6.2.1 Verification of Geomorphic Landscape Units (GLUs) Onsite

☐6.2.2 Downstream Systems Sensitivity to Coarse Sediment

☐6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite

☐No optional analyses performed, the project will avoid critical coarse sediment yield areas identified based on WMAA maps

If optional analyses were performed, what is the final result?

☐No critical coarse sediment yield areas to be protected based on verification of GLUs onsite

☐Critical coarse sediment yield areas exist but additional analysis has determined that protection is not required. Documentation attached in Attachment 2.B of the SWQMP.

☐Critical coarse sediment yield areas exist and require protection. The project will implement management measures described in Sections 6.2.4 and 6.2.5 as applicable, and the areas are identified on the SWQMP Exhibit.

Describe:

Refer to the exhibit located in Attachment 2b.

Form 2, Page 10 of 11

FLOW CONTROL FOR POST-PROJECT RUNOFF

**This section only required if hydromodification management requirements apply*

List and describe point(s) of compliance for hydromodification management flow control (see Section 6.3.1). Identify each point of compliance for flow control on the Hydromodification Management Exhibit in Attachment 2A.

Has a geomorphic assessment been performed for the receiving channel(s)?

☒ No, the low flow threshold is 0.1Q2 (default low flow threshold)

☐ Yes, the result is the low flow threshold is 0.1Q2

☐ Yes, the result is the low flow threshold is 0.3Q2

☐ Yes, the result is the low flow threshold is 0.5Q2

If a geomorphic assessment has been performed, provide the report.

Discussion / Additional Information: (optional)

Form 2, Page 11 of 11

OTHER SITE REQUIREMENTS AND CONSTRAINTS

When applicable, list other site requirements or constraints that will influence storm water management design, such as zoning requirements including setbacks and open space, or local codes governing minimum street width, sidewalk construction, allowable pavement types, and drainage requirements.

Storm water runoff from the offsite improvements to Melrose Drive and Matagual Drive will be directed to tree wells located within the public right-of-way. Proposed tree well BMPs per County of San Diego Department of Public Works Green Streets Design Criteria and Standard Drawings.

Optional Additional Information or Continuation of Previous Sections As Needed

This space provided for additional information or continuation of information from previous sections as needed.

FORM 3 – SOURCE CONTROL BMPS FOR ALL DEVELOPMENT PROJECTS

Page 1 of 4

PROJECT IDENTIFICATION & SOURCE CONTROLS

Project Name MELROSE AND MATAGUAL

Permit Application Number P22-0218

All development projects must implement source control BMPs SC-1 through SC-6, unless justification is provided by qualified design professional See Chapter 4 and Appendix E of the Model BMP Design Manual for information to implement source control BMPs shown in this checklist.

Answer each category below pursuant to the following, and provide description.

- "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the Model BMP Design Manual.
- "No" means the BMP is applicable to the project but it is not feasible to implement.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project has no outdoor materials storage areas).

Source Control Requirement	Applied?		
SC-1 Prevention of Illicit Discharges into the MS4	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Provide effective irrigation, dispersion of non-storm water discharges into landscape			
SC-2 Storm Drain Stenciling or Signage	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Provide prohibitive dumping placards and/or signage -Post signage at public access points to deter prohibitive dumping -Maintain legibility of placards and signage			
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No outdoor storage areas proposed			
SC-4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No outdoor work areas proposed			

Form 3, Page 2 of 4			
Source Control Requirement	**Applied?**		
SC-5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: Trashcans will be stored in garages			
SC-6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)	**Applied?**		
a. On-site storm drain inlets	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Provide prohibitive dumping placards and/or signage -Post signage at public access points to deter prohibitive dumping -Maintain legibility of placards and signage			
b. Sump pumps or French drains	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No sump pumps or French drains proposed			
c. Interior or sub-surface parking garages	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No parking garages proposed			
d. Need for future indoor & structural pest control	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Provide integrated pest management information to owners, lessees and operators.			
e. Landscape/outdoor pesticide use	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Landscaping will be designed to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to storm water pollution.			

Form 3, Page 3 of 4			
Source Control Requirement	**Applied?**		
f. Pools, spas, ponds, decorative fountains, or other water features	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No water features proposed			
g. Food preparation and/or service	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No food preparation proposed			
h. Refuse/trash collection areas	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: - Trashcans will be stored in garages			
i. Industrial processes	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No industrial processes proposed			
j. Outdoor storage of equipment, chemicals, or materials	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No outdoor storage proposed			
k. Vehicle and equipment cleaning	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No vehicle cleaning proposed			
l. Vehicle/equipment repair and maintenance	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No vehicle maintenance proposed			
m. Fuel dispensing areas	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No fuel dispensing areas proposed			

Form 3, Page 4 of 4			
n. Loading docks	☐ Yes	☐ No	☒ N/A
Describe how source control will be implemented, or justify if not feasible: -No loading docks proposed			
o. Fire sprinkler test water and relief point	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Drain fire sprinkler test water to the sanitary sewer			
p. Miscellaneous drain or wash down areas	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Condensate drain lines and roofing to drain to landscaped areas			
q. Plaza, sidewalks, parking lots	☒ Yes	☐ No	☐ N/A
Describe how source control will be implemented, or justify if not feasible: -Sidewalks shall be swept regularly to prevent accumulation of debris which shall be collected to prevent entry into the storm drain. -Wash water containing cleaning agent or degreaser shall be discharged to the sanitary sewer.			
Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for all "No" answers shown above.			

FORM 4 – SITE DESIGN BMPS FOR ALL DEVELOPMENT PROJECTS

Page 1 of 2

PROJECT IDENTIFICATION

Project Name Melrose and Matagual

Permit Application Number P22-0218

All development projects must implement site design BMPs SD-1 through SD-8, unless justification is provided by qualified design professional. See Chapter 4 and Appendix E of the Model BMP Design Manual for information to implement site design BMPs shown in this checklist.

Answer each category below pursuant to the following, and provide description.

- "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the Model BMP Design Manual.
- "No" means the BMP is applicable to the project but it is not feasible to implement.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project site has no existing natural areas to conserve).

Site Design Requirement	Applied?		
SD-1 Maintain Natural Drainage Pathways and Hydrologic Features	☒ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Existing drainage discharge points will be maintained			
SD-2 Conserve Natural Areas, Soils, and Vegetation	☐ Yes	☐ No	☒ N/A
Describe how site design will be implemented, or justify if not feasible: -Landscaping is proposed where feasible throughout the site and along the perimeter slopes			
SD-3 Minimize Impervious Area	☒ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: - Landscaping is proposed where feasible throughout the site and along the perimeter slopes			
SD-4 Minimize Soil Compaction	☒ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Soil compaction will be minimized in proposed landscaped areas			

Form 4, Page 2 of 2			
SD-5 Impervious Area Dispersion	☒ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Roof runoff designed to discharge to pervious areas			
SD-6 Runoff Collection	☐ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Onsite runoff will be effectively collected, conveyed and discharged via proposed storm drain -StormGarden Biofiltration Systems will effectively receive and treat runoff from impervious areas prior to discharge to the public storm drainage system			
SD-7 Landscaping with Native or Drought Tolerant Species	☒ Yes	☐ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Landscaping design shall consist of native and drought tolerant species			
SD-8 Harvest and Use of Precipitation *Note: Worksheet B.3-1, "Harvest and Use Feasibility" must be included in this section of the SWQMP.*	☐Yes	☒ No	☐ N/A
Describe how site design will be implemented, or justify if not feasible: -Harvesting and using precipitation is not a feasible BMP to implement. Refer to Attachment 1c.			

FORM 5 – STRUCTURAL POLLUTANT CONTROL AND HYDROMODIFICATION MANAGEMENT BMPS

PROJECT IDENTIFICATION
Project Name Melrose and Matagual
Permit Application Number P22-0218
PDP Structural BMPs
All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the *BMP Design Manual*). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the *BMP Design Manual*). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s). PDP structural BMPs must be verified by the local jurisdiction at the completion of construction. This may include requiring the project owner or project owner's representative and engineer of record to certify construction of the structural BMPs (see Section 1.12 of the *BMP Design Manual*). PDP structural BMPs must be maintained into perpetuity, and the local jurisdiction must confirm the maintenance (see Section 7 of the *BMP Design Manual*). Use this form to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (page 3 of this form) for each structural BMP within the project (copy the BMP summary information page as many times as needed to provide summary information for each individual structural BMP).
Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the *BMP Design Manual* were followed, and the results (type of BMP selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate structures. Step 1A: The DMAs draining to the structural BMPs are not self-mitigating, de minimis, or self-retaining. Step 1B: There are no site design BMPs proposed for the project for which the runoff factor can be adjusted. Step 2: Harvest and use is not feasible. Refer to Attachment 1c. Step 3: Infiltration is not feasible. Refer to Attachment 1d. Step 3C: Stormgarden Biofiltration Systems and the Rtank underground storage have been selected and sized per the design criteria to meet pollutant control and hydromodification management flow control requirements.

FORM 6 – STORMWATER BMP MAINTENANCE MECHANISM

PROJECT IDENTIFICATION
Project Name Melrose and Matagual
Permit Application Number P22-0218
Maintenance Requirements
A stormwater structural BMP operations and maintenance plan must be prepared for PDPs. A template plan is available at: http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms Has a stormwater structural BMP operations and maintenance plan been prepared? ☐ Yes, included with Attachment 3A ☒ No, but will provide on future Final Design report
All projects are required to maintain designed functionality of structural BMPs in perpetuity. Privately-owned projects must record a *Storm Drain Maintenance Agreement* with the County of San Diego Assessor's Office. A template *Storm Drain Maintenance Agreement* is available at: http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms Has a Storm Drain Maintenance Agreement been submitted to the County? ☐ Yes, copy included with Attachment 3B ☒ No, but will provide on future Final Design report ☐ Not Applicable (e.g., city-owned property/project)

ATTACHMENT 1 – POLLUTANT CONTROLS: SUPPORT DOCUMENT AND CHECKLIST

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

Attachment Sequence	Contents	Checklist
Attachment 1A	Drainage Management Area (DMA) Exhibit See DMA Exhibit Checklist on next page.	☒ Included
Attachment 1B	Tabular Summary of DMAs Showing DMA ID matching DMA Exhibit, DMA Area, DMA Type, and BMPs* *Provide table in this Attachment OR on DMA Exhibit in Attachment 1A	☒ Included on DMA Exhibit in Attachment 1A ☐ Included as Attachment 1B
Attachment 1C	Harvest and Use Feasibility Screening Checklist (Worksheet B.3-1) Refer to Appendix B.3-1 of the *BMP Design Manual*.	☒ Included ☐ Not included because the entire project will use Infiltration BMPs
Attachment 1D	Categorization of Infiltration Feasibility Condition (Worksheet C.4-1) Refer to Appendices C and D of the *BMP Design Manual*.	☒ Included ☐ Not included because the entire project will use Harvest and Use BMPs
Attachment 1E	Pollutant Control BMP Design Worksheets and Calculations Refer to Appendices B and E of the *BMP Design Manual* for structural pollutant control BMP design guidelines	☒ Included

ATTACHMENT 1A – DMA EXHIBIT CHECKLIST

For Attachment 1A, provide map(s) for the project site, titled "DMA Exhibit." The checklist below identifies minimum elements that must be included with the DMA Exhibit.

☒ Underlying hydrologic soil group
☒ Approximate depth to groundwater
☒ Existing natural hydrologic features (watercourses, seeps, springs, wetlands, etc.)
☒ Critical coarse sediment yield areas to be protected
☒ Existing topography and impervious areas
☒ Existing and proposed site drainage network and storm drain structures
☒ Proposed connections to offsite drainage
☒ Proposed demolition
☒ Proposed grading
☒ Proposed impervious features
☒ Proposed design features and surface treatments used to minimize imperviousness
☒ Drainage management area (DMA) boundaries
☒ DMA identification numbers (DMA ID)
☒ DMA areas (square footage or acreage)
☒ DMA type (Drains to BMP, Self-mitigating, De Minimis, or Self-retaining)
☒ Potential pollutant source areas and corresponding required source controls (see Form 2 and Form 3 of SWQMP, *BMP Design Manual* Chapter 4 and Appendix E.1)
☒ Proposed Structural BMPs (see Form 5 of SWQMP)

DMA EXHIBIT

MELROSE & MATAGUAL

PUBLIC TREE WELL AREA TABLE						
DMA NO.	EX./REPLACED IMP. AREA (S.F.)	EX./REMOVED IMP. AREA (S.F.)	NEW IMP. AREA (S.F.)	PERV. AREA (S.F.)	NET. IMP. AREA TO TREAT (S.F.)**	TOTAL AREA (S.F.)
5	5,631	113	6,161	3,275	6,048	15,180
6	14,105	0	1,605	1,015	1,605	16,725

* PER COUNTY OF SD BMP DESIGN MANUAL (APPENDIX K), REQUIRED TREATMENT VOLUME FOR GREEN STREET BMPS SHOULD EXCLUDE RUNOFF VOLUMES ASSOCIATED WITH EXISTING.REPLACED IMPERVIOUS AREAS.
** NET IMP. AREA = NEW IMP. AREA - EX./REMOVED IMP. AREA

DMA DATA TABLE									
DMA NO.	DRIVEWAY AREA (S.F.)	HOUSE AREA (S.F.)	SIDEWALK AREA (S.F.)	ROAD AREA (S.F.)	TOTAL IMPERVIOUS AREA (S.F.)	PERVIOUS AREA (S.F.)	UNDIST. PERVIOUS OFFSITE AREA (S.F.)	TOTAL AREA (S.F.)	TOTAL AREA (AC)
1	2,536	9,870	2,156	8,276	22,838	19,383	-	42,221	0.97
2	3,546	12,690	2,178	8,290	26,704	22,809	-	49,513	1.14
3	4,995	15,510	2,897	14,738	38,140	30,073	1,651	69,864	1.60
4	3,471	9,870	3,565	14,173	31,079	35,125	2,846	69,050	1.58
5	-	-	2,305	9,487	11,792	3,388	-	15,180	0.35
6	-	-	1,869	13,841	15,710	1,015	-	16,725	0.38

BMP SUMMARY					
DMA NO.	BMP #	BMP TYPE	BMP AREA/ QUANTITY	BMP OUTLET	OUTLET PIPE
1	(A)	STORMGARDEN	(1) SGT-0608	-	18"
	(B)	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
2	(C)	STORMGARDEN	(1) SGT-0406 (1) SGT-0408	-	18"
	(D)	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
3	(E)	STORMGARDEN	(1) SGT-0612	-	18"
	(F)	TREE WELLS	(3) 20' DIA. TREE WELL	-	-
4	(G)	STORMGARDEN	(2) SGT-0408	-	18"
	(H)	TREE WELLS	(3) 20' DIA. TREE WELL	-	-
1, 2, 3 & 4	(J)	RTANK DETENTION SYSTEM	3,200 SF 6.75 FT HIGH	2.5-INCH ORIFICE, 18-INCH WIDE 5-INCH HIGH ORIFICE @ 4' HIGH, 20-FT WIDE 6-INCH HIGH WEIR @ 6.25-FT HIGH	24"
5	(K)	TREE WELLS	(7) 20' DIA. TREE WELL	-	-
6	(L)	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
-	(M)	ROOF DRAIN TO LANDSCAPING	68 (2 PER PAD)	-	-

POST-CONSTRUCTION PERMANENT BMP OPERATION & MAINTENANCE PROCEDURE DETAILS

STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT APPROVAL NO:

O&M RESPONSBILE PARTY DESIGNEE: PACIFIC INTERNATIONAL INVESTMENTS, INC

BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE METHOD	QUANTITY	SHEET NUMBER(S)
EDUCATION PROGRAM (SOURCE CONTROL)	ANNUAL	AS NEEDED	EMPLOYEE EDUCATION PROGRAM	-	N/A
SIGNAGE & STENCILING	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	-	N/A
STORMGARDEN	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	6	N/A
DETENTION VAULT - RTANK	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	1	N/A
TREE WELLS	MONTHLY	AS NEEDED	INSPECT, TREE HEALTH MAINTENANCE, LOOSEN/REPLACE SOIL, DISPERSE STANDING WATER, RESTORE DRAINAGE	19	N/A

ARCHITECT NOTE

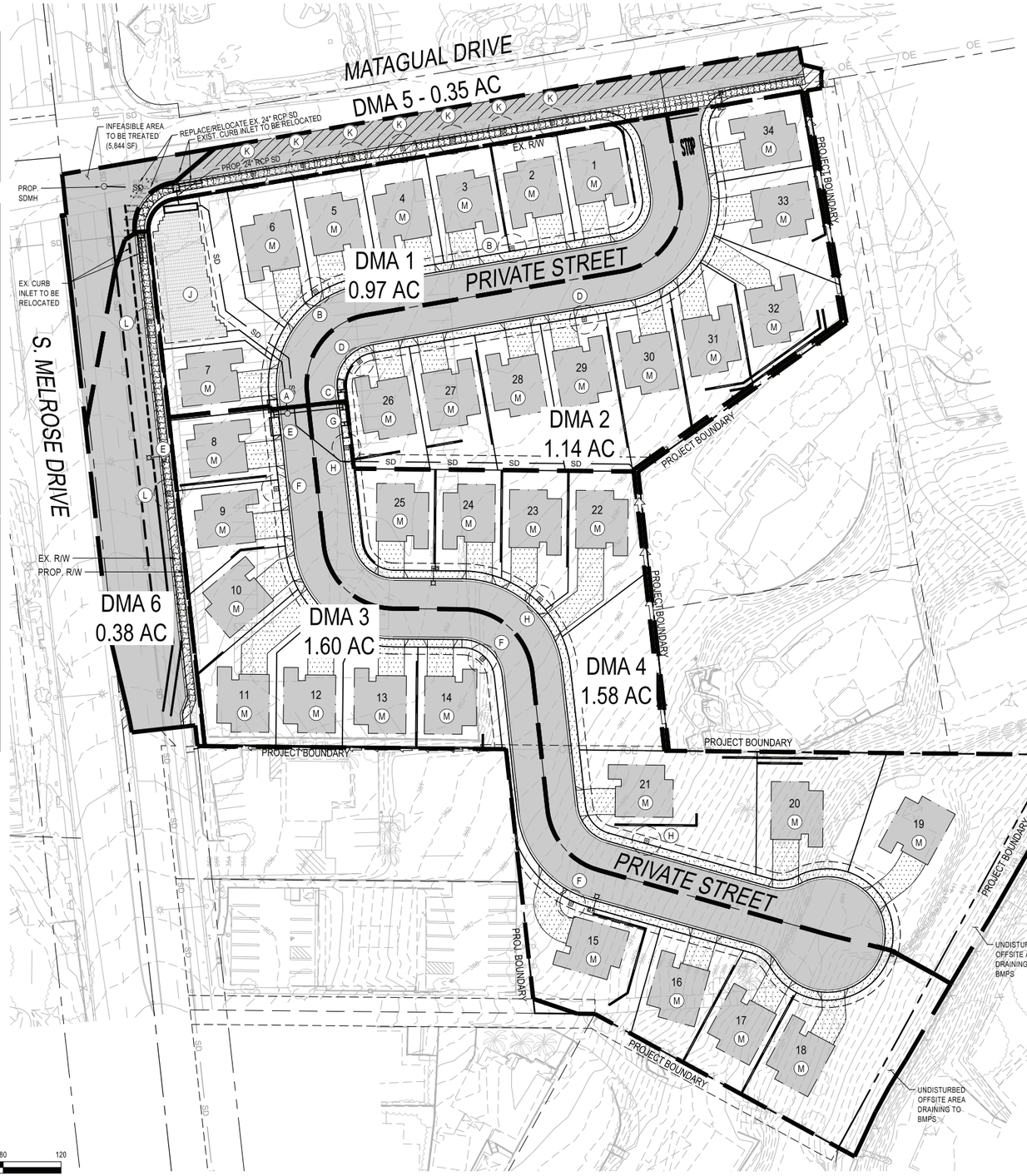
MY ARCHITECT'S SEAL AND SIGNATURE IS TO VERIFY THAT KTGY ARCHITECTURAL PLANNING HAS REVIEWED THIS PLAN PREPARED BY THE CIVIL ENGINEER AND HAS COORDINATED THE SCHEMATIC DESIGN OF THE BUILDING ARCHITECTURE ACCORDINGLY.

LANDSCAPE NOTE

I HAVE REVIEWED THE STORMGARDEN BIOFILTRATION SYSTEMS SHOWN ON THE CIVIL PLAN AND CONFIRM THAT THE CONCEPT LANDSCAPE PLANS ARE COORDINATED AND APPROPRIATE PLANTING AND IRRIGATION WILL BE DESIGNED IN THOSE SYSTEMS.

GEOTECHNICAL NOTE

I HAVE REVIEWED THE SOIL AND GEOLOGIC CONDITIONS FOR THIS PROJECT AND CONFIRM THE SELECTED POST CONSTRUCTION BMPS HAVE BEEN DISCUSSED, COORDINATED AND JUSTIFIED AS REQUIRED BY THE C.O.V. BMP DESIGN MANUAL.



GENERAL INFORMATION

PROJECT SITE IS LOCATED IN THE VISTA H.S.A. (904.22) OF BUENA VISTA CREEK H.A. OF CARLSBAD H.U.

POLLUTANTS OF CONCERN - BENTHIC COMMUNITY EFFECTS, BIFENTHRIN, SELENIUM, AND TOXICITY

LID SITE DESIGN BMP'S

1. STORMGARDEN BIOFILTRATION SYSTEMS
2. RTANK DETENTION SYSTEM
3. ROOF DRAIN TO LANDSCAPING
4. MINIMIZE IMPERVIOUS SURFACES
5. PROTECT SLOPES AND CHANNELS

SOURCE CONTROL BMP'S

1. STORM DRAIN STENCILING
2. EMPLOY INTEGRATED PEST MANAGEMENT PRACTICES
3. EMPLOY EFFICIENT IRRIGATION AND DROUGHT TOLERANT LANDSCAPE DESIGN

SOIL INFORMATION

HYDROLOGIC SOIL GROUP: TYPE D

GROUND WATER INFORMATION

GROUND WATER WAS NOT ENCOUNTERED AT THE SITE. SEE REPORT PREPARED BY: GEOTEK, INC
DATED: AUGUST 3, 2021 PROJECT NO. 3706-SD

COARSE SEDIMENT YIELD

REFER TO ATTACHEMENT 2B OF THIS REPORT FOR CRITICAL COARSE SEDIMENT YIELD AREAS WITHIN THIS PROJECT SITE.

BMP NOTES

1. THESE BMPS AREA MANDATORY TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR THERE PLANS
2. NO CHANGES TO THE PROPOSED BMPS ON THIS SHEET WITHOUT PRIOR APPROVAL FORM THE CITY ENGINEERING DEPARTMENT
3. NO SUBSTITUTIONS TO THE MATERIAL TYPES OR PLANTING TYPES WITHOUT PRIOR APPROVAL FROM THE LAND DEVELOPMENT ENGINEER
4. NO OCCUPANCY WILL BE GRANTED UNTIL THE CITY INSPECTOR STAFF HAS INSPECTED THIS PROJECT FOR APPROPRIATE BMP CONSTRUCTION AND INSTALLATION.

WATER QUALITY TECHNICAL REPORT

TITLE - PRIORITY DEVELOPMENT PROJECT STORM WATER QUALITY MANAGEMENT REPORT FOR MELROSE AND MATAGUAL
DATE - MAY 2022
PREPARED BY - PASCO LARET SUITER & ASSOCIATES

RESPONSIBLE PARTY INFORMATION

TTLC VISTA MELROSE, LLC

2942 CENTURY PLACE SUITE 121

COSTA MESA, CA 92626

LEGEND

DESCRIPTION	SYMBOL
LOT NUMBER	10
DRAINAGE DIRECTION	
DRAINAGE MANAGEMENT AREA	
STORMGARDEN	
RTANK	
IMPERVIOUS AREA (PUBLIC ROW) - EXISTING/REPLACED	
IMPERVIOUS AREA (PUBLIC ROW) - EXISTING/REMOVED	
IMPERVIOUS AREA (PUBLIC ROW) - NEW	
TREE WELL	

PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 858.259.8212 | www.plsaengineering.com

DMA EXHIBIT
ADDRESS: MELROSE AND MATAGUAL
SCALE: 1" = 40'
DATE: 5/25/22
SHEET 1 OF 1

SAVE DATE: 11/22/22 ~ PLOT DATE: 11/22/22 ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\SWQMP\Att 1A – DMA Exhibit\3684_DMA Exhibit.dwg

ATTACHMENT 1c

Harvest and Use Feasibility Screening	**Worksksheet B.3-1**

1. Is there a demand for harvested water (check all that apply) at the project site that is reliably present during the wet season?

∨ Toilet and urinal flushing
√ Landscape irrigation
Other:_____

2. If there is a demand; estimate the anticipated average wet season demand over a period of 36 hours. Guidance for planning level demand calculations for toilet/urinal flushing and landscape irrigation is provided in Section B.3.2.

Toilet/Urinal Flushing
(9.3 gal/person-day) x (0.13368 cuft/gal) x (1.5 days) = 1.86 cuft/person-36hr
Assume (3 people per house x 34 houses) x (1.86 cuft/person-36 hr) = **190 cuft/36hr**

Landscape Irrigation
(2.47 ac irrigated) x (1470 gal/ac-36hr) x (0.13368 cuft/gal) = 486 **cuft/36hr**

Total = 190 cuft + 503 cuft = 676 cuft

3. Calculate the DCV using worksheet B-2.1.
DCV = 7,566 cuft

3a. Is the 36-hour demand greater than or equal to the DCV?	3b. Is the 36-hour demand greater than 0.25DCV but less than the full DCV?	3c. Is the 36-hour demand less than 0.25DCV?
Yes / ∨ No	Yes / ∨ No	∨ **Yes**
Harvest and use appears to be feasible. Conduct more detailed evaluation and sizing calculations to confirm that DCV can be used at an adequate rate to meet drawdown criteria.	Harvest and use may be feasible. Conduct more detailed evaluation and sizing calculations to determine feasibility. Harvest and use may only be able to be used for a portion of the site, or (optionally) the storage may need to be upsized to meet long term capture targets while draining in longer than 36 hours.	∨ **Harvest and use is considered to be infeasible.**

ATTACHMENT 1d

Worksheet C.4-1: Categorization of Infiltration Feasibility Condition

Categorization of Infiltration Feasibility Condition		Worksheet C.4-1	
Part 1 - Full Infiltration Feasibility Screening Criteria **Would infiltration of the full design volume be feasible from a physical perspective without any undesirable consequences that cannot be reasonably mitigated?**			
Criteri	Screening Question	**Yes**	**No**
1	**Is the estimated reliable infiltration rate below proposed facility locations greater than 0.5 inches per hour?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.		✓
Provide basis: See Geotechnical and Infiltration Evaluation dated August 3, 2021, report # 3706 SD: infiltration rates of 0.05 in/hr Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
2	**Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.		✓ groundwater mounding due to low infiltration rate

Provide basis:

See Geotechnical and Infiltration Evaluation dated August 3, 2021, report # 3706-SD

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.

Worksheet C.4-1 Page 2 of 4

Criteria	Screening Question	Yes	No
3	**Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of groundwater contamination (shallow water table, storm water pollutants or other factors) that cannot be mitigated to an acceptable level?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	✓	

Provide basis:

See Geotechnical and Infiltration Evaluation dated August 3, 2021, File # 3706-SD - groundwater greater than 30 Feet

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.

4	**Can infiltration greater than 0.5 inches per hour be allowed without causing potential water balance issues such as change of seasonality of ephemeral streams or increased discharge of contaminated groundwater to surface waters?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.		✓ Low infiltration rates will lead to mounding and discharge to surface

Provide basis: Geotechnical and Infiltration Evaluation dated August 3, 2021, File # 3706-SD Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.		
Part 1 Result*	If all answers to rows 1 - 4 are "**Yes**" a full infiltration design is potentially feasible. The feasibility screening category is **Full Infiltration** If any answer from row 1-4 is "**No**", infiltration may be possible to some extent but would not generally be feasible or desirable to achieve a "full infiltration" design. Proceed to Part 2	✓

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by City Engineer to substantiate findings.

Bruce A. Hick

REGISTERED PROFESSIONAL ENGINEER
BRUCE A. HICK
GE 2284
GEOTECHNICAL
STATE OF CALIFORNIA

3/14/2022

Worksheet C.4-1 Page 3 of 4

Part 2 – Partial Infiltration vs. No Infiltration Feasibility Screening Criteria

Would infiltration of water in any appreciable amount be physically feasible without any negative consequences that cannot be reasonably mitigated?

Criteria	Screening Question	Yes	No
5	**Do soil and geologic conditions allow for infiltration in any appreciable rate or volume?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.		✓ shallow bedrock / impermeable soils

Provide basis:

See Geotechnical and Infiltration Evaluation dated August 3, 2021, File # 3706-SD

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

6	**Can Infiltration in any appreciable quantity be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.		✓ potential mounding

Provide basis:

See Geotechnical and Infiltration Evaluation dated August 3, 2021, File # 3706-SD

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

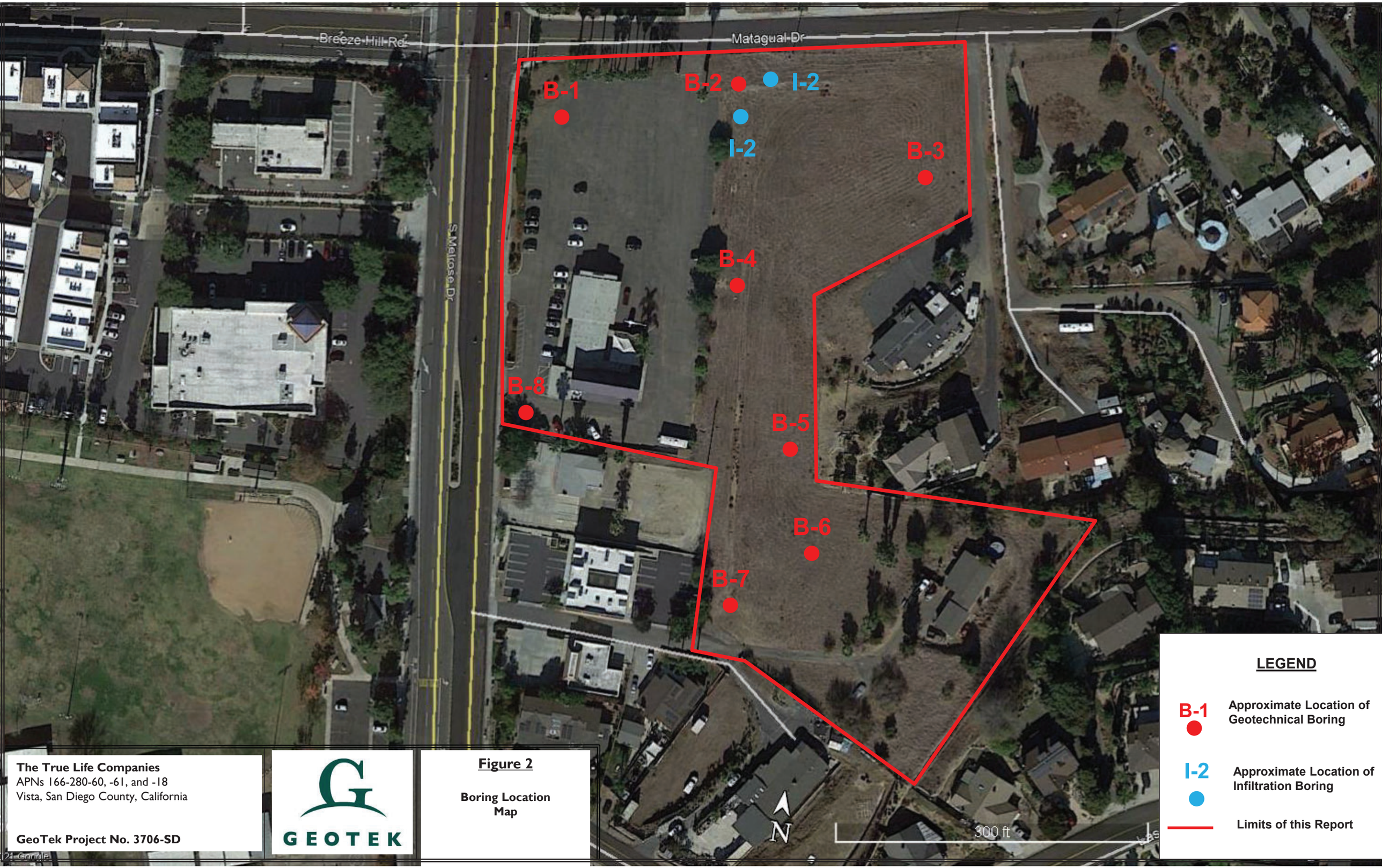
Worksheet C.4-1 Page 4 of 4			
Criteria	Screening Question	Yes	No
7	**Can Infiltration in any appreciable quantity be allowed without posing significant risk for groundwater related concerns (shallow water table, storm water pollutants or other factors)?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	✓	
Provide basis: See Geotechnical and Infiltration Evaluation dated August 3, 2021, File # 3D6-SD Ground water deeper than 30 feet Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
8	**Can infiltration be allowed without violating downstream water rights?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	unknown	
Provide basis: unKnown Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
Part 2 Result*	If all answers from row 1-4 are yes then partial infiltration design is potentially feasible. The feasibility screening category is **Partial Infiltration.** If any answer from row 5-8 is no, then infiltration of any volume is considered to be **infeasible** within the drainage area. The feasibility screening category is **No Infiltration.**	✓	

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by Agencies/Jurisdictions to substantiate findings

Bruce A. Hick

REGISTERED PROFESSIONAL ENGINEER ★ BRUCE A. HICK ★ GE 2284 ★ GEOTECHNICAL ★ STATE OF CALIFORNIA

3-14-2022



The True Life Companies
APNs 166-280-60, -61, and -18
Vista, San Diego County, California

GeoTek Project No. 3706-SD

GEOTEK

Figure 2

Boring Location Map

APPENDIX C

PERCOLATION DATA SHEETS & PORCHET CALCULATIONS

Proposed 45-Lot Residential Development
South Melrose Drive and Matagual Drive
Vista, San Diego County, California
Project No. 3706-SD

GEOTEK

Client:	**The True Life Companies**
Project:	**45-Lot Residential Development**
Project No:	**3706-SD**
Date:	**7/9/2021**

Boring No. **I-1**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	40.25
Test Hole Radius, r =	4
Initial Depth to Water, D_O =	40
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\ (60r)}{\Delta t\ (r+2H_{avg})}$

$H_O = D_T - D_O$ =	20
$H_F = D_T - D_F$ =	19.75
$\Delta H = \Delta D = H_O - H_F$ =	0.25
$H_{avg} = (H_O+H_F)/2$ =	19.875

I_t = 0.05 **Inches per Hour**

GEOTEK

Client:	**The True Life Companies**
Project:	**45-Lot Residential Development**
Project No:	**3706-SD**
Date:	**7/9/2021**

Boring No. **I-2**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	40.25
Test Hole Radius, r =	4
Initial Depth to Water, D_O =	40
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\ (60r)}{\Delta t\ (r+2H_{avg})}$

$H_O = D_T - D_O$ =	20
$H_F = D_T - D_F$ =	19.75
$\Delta H = \Delta D = H_O - H_F$ =	0.25
$H_{avg} = (H_O+H_F)/2$ =	19.875

I_t = 0.05 **Inches per Hour**

GEOTEK

PERCOLATION DATA SHEET

Project: APNs 166-280-60, -61, -18 **Job No.: 3706-SD**

Test Hole No.: I-1 **Tested by: JD** **Date: 7/9/21**

Depth of Hole As Drilled: 60 inches **Before Test: 60 inches** **After Test: 60 inches**

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)	Comments
1	8:17AM - 8:42AM	25	60	20	19.75	0.25	
2	8:44AM - 9:09AM	25	60	20	19.75	0.25	
3	9:11AM - 9:41AM	30	60	20	19.75	0.25	
4	9:43AM - 10:13AM	30	60	20	19.75	0.25	
5	10:15AM - 10:45AM	30	60	20	19.75	0.25	
6	10:47AM - 11:17AM	30	60	20	19.75	0.25	
7	11:19AM - 11:49AM	30	60	20	19.75	0.25	
8	11:51AM - 12:21PM	30	60	20	19.75	0.25	
9	12:23PM - 12:53PM	30	60	20	19.75	0.25	
10	12:55PM - 1:25PM	30	60	20	19.75	0.25	
11	1:27PM - 1:57PM	30	60	20	19.75	0.25	
12	1:59PM - 2:29PM	30	60	20	19.75	0.25	
13	2:31PM - 3:01PM	30	60	20	19.75	0.25	
14	3:03PM - 3:33PM	30	60	20	19.75	0.25	

GEOTEK

PERCOLATION DATA SHEET

Project: APNs 166-280-60, -61, -18 **Job No.: 3706-SD**

Test Hole No.: I-2 **Tested by: JD** **Date: 7/9/21**

Depth of Hole As Drilled: 60 inches **Before Test: 60 inches** **After Test: 60 inches**

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)	Comments
1	8:10AM - 8:35AM	25	60	20	20.25	0.75	
2	8:37AM - 9:02AM	25	60	20	20.5	0.50	
3	9:04AM - 9:34AM	30	60	20	20.5	0.50	
4	9:36AM - 10:06AM	30	60	20	20.5	0.50	
5	10:08AM - 10:38AM	30	60	20	20.75	0.25	
6	10:40AM - 11:10AM	30	60	20	20.75	0.25	
7	11:12AM - 11:42AM	30	60	20	20.75	0.25	
8	11:44AM - 12:14PM	30	60	20	20.75	0.25	
9	12:16PM - 12:46PM	30	60	20	20.75	0.25	
10	12:48PM - 1:18PM	30	60	20	20.75	0.25	
11	1:20PM - 1:50PM	30	60	20	20.75	0.25	
12	1:52PM - 2:22PM	30	60	20	20.75	0.25	
13	2:24PM - 2:54PM	30	60	20	20.75	0.25	
14	2:56PM - 3:26PM	30	60	20	20.75	0.25	

GEOTEK

ATTACHMENT 1e

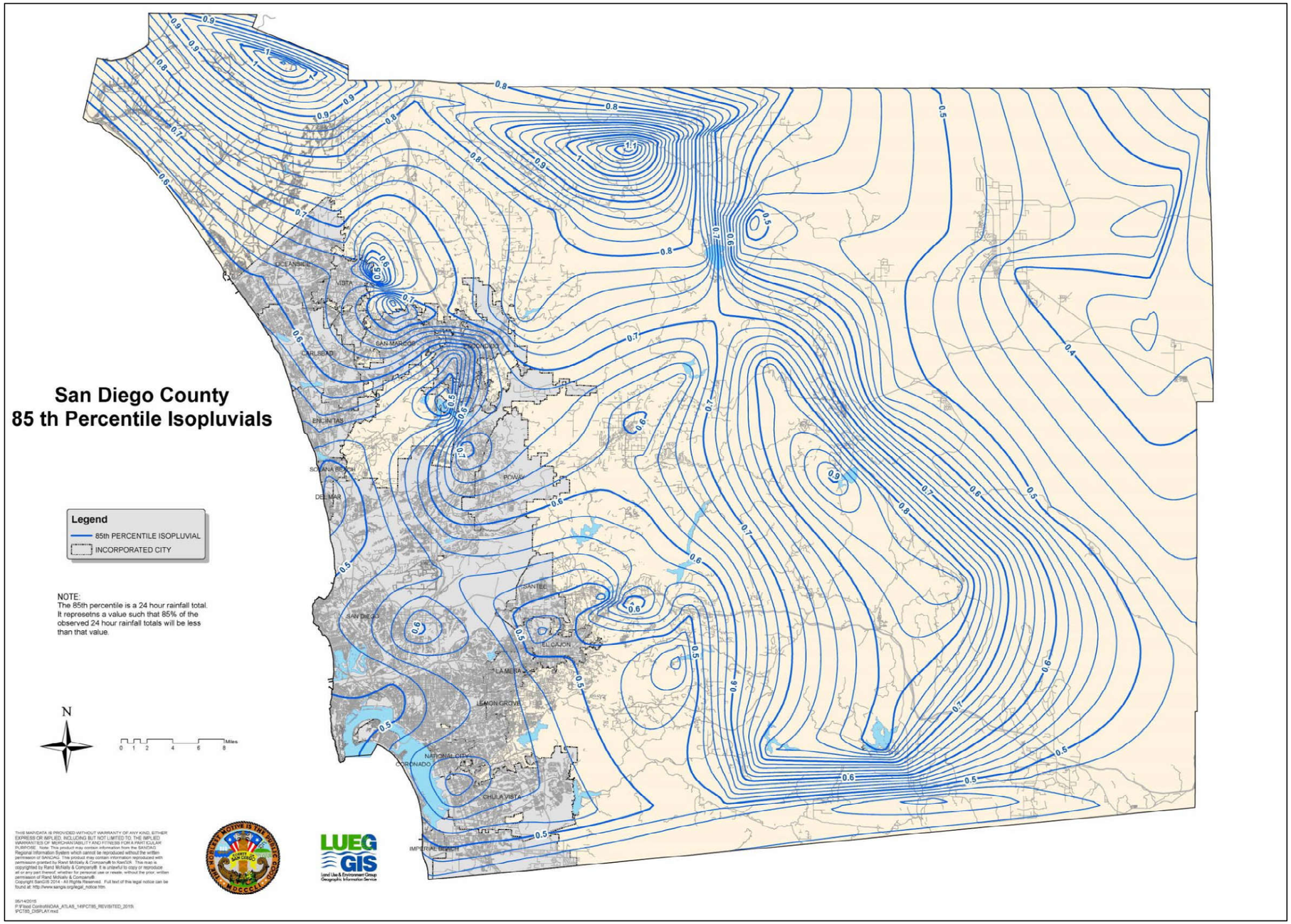


Figure B.1-1: 85th Percentile 24-hour Isopluvial Map

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11/22/2022

Appendix B: Stormwater Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.2-1. DCV

DMA-1

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	0.97	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.62	unitless
4	Street trees volume reduction	TCV=	360	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	1068	cubic-feet

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	22838	0.9	20,554	
Pervious	19383	0.3	5,815	
Total	42221		26,369	0.62

Tree Well Volume Credit

Number of Tree Wells =	2	
Mature Tree Canopy Diameter =	20	ft
Tree Well Volume Credit =	360	cf

DMA-2

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	1.14	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.62	unitless
4	Street trees volume reduction	TCV=	360	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	1312	cubic-feet

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	26704	0.9	24,034	
Pervious	22809	0.3	6,843	
Total	49513		30,876	0.62

Tree Well Volume Credit

Number of Tree Wells =	2	
Mature Tree Canopy Diameter =	20	ft
Tree Well Volume Credit =	360	cf

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Appendix B: Stormwater Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.2-1. DCV

DMA-3

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	1.60	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.63	unitless
4	Street trees volume reduction	TCV=	540	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	1835	cubic-feet

Tree Well Volume Credit

Number of Tree Wells =	3	
Mature Tree Canopy Diameter =	20	ft
Tree Well Volume Credit =	540	cf

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	38140	0.9	34,326	
Pervious	31724	0.3	9,517	
Total	69864		43,843	0.63

DMA-4

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	1.59	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.57	unitless
4	Street trees volume reduction	TCV=	540	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	1592	cubic-feet

Tree Well Volume Credit

Number of Tree Wells =	3	
Mature Tree Canopy Diameter =	20	ft
Tree Well Volume Credit =	540	cf

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	31079	0.9	27,971	
Pervious	37971	0.3	11,391	
Total	69050		39,362	0.57

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Appendix B: Stormwater Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.2-1. DCV

DMA-5 - Tree Wells

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	0.21	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.69	unitless
4	Street trees volume reduction	TCV=	0	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	348	cubic-feet

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	6048	0.9	5,443	
Pervious	3275	0.3	983	
Total	9323		6,426	0.69

HMP Tree Well Multiplier per County BMPDM (D soil, 36" soil depth)	3.17	
RRV(Required Retention Volume)=DCV x Tree Well Multiplier	1103	cf
Credit Volume per Tree (20-foot Mature Canopy Diameter)	180	cf
Number of 20-ft Diameter Mature Canopy Trees proposed	7	ea
Total Volume Credit Provided	1260	cf

DMA-6

Design Capture Volume		Worksheet B-2.1		
1	85th percentile 24-hr storm depth from Figure B.1-1	d=	0.65	inches
2	Area tributary to BMP (s)	A=	0.06	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1) * See calculation below	C=	0.67	unitless
4	Street trees volume reduction	TCV=	0	cubic-feet
5	Rain barrels volume reduction (1 cubic foot=7.48 gallons)	RCV=	0	cubic-feet
6	Calculate DCV = (3630 x C x d x A) – TCV - RCV	DCV=	95	cubic-feet

	Area (sq ft)	Runoff Factor	A x RF	Weighted RF
Impervious	1605	0.9	1,445	
Pervious	1015	0.3	305	
Total	2620		1,749	0.67

HMP Tree Well Multiplier per County BMPDM (D soil, 36" soil depth)	3.17	
RRV(Required Retention Volume)=DCV x Tree Well Multiplier	300	cf
Credit Volume per Tree (20-foot Mature Canopy Diameter)	180	cf
Number of 20-ft Diameter Mature Canopy Trees proposed	2	ea
Total Volume Credit Provided	360	cf

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11/22/2022

Appendix B: Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.6-1: Flow-Thru Design Flows

DMA-1

Flow-thru Design Flows		Worksheet B.6-1		
1	DCV	DCV	1428	cubic-feet
2	DCV retained	$DCV_{retained}$	360	cubic-feet
3	DCV biofiltered	$DCV_{biofiltered}$		cubic-feet
4	DCV requiring flow-thru (Line 1 - Line 2 - 0.67*Line 3	$DCV_{flow-thru}$	1068	cubic-feet
5	Adjustment factor (Line 4 / Line 1)*	AF=	0.75	unitless
6	Design rainfall intensity	i=	0.20	in/hr
7	Area tributary to BMP (s)	A=	0.97	acres
8	Area-weighted runoff factor (estimate using Appendix B.2)	C=	0.62	unitless
9	Calculate Flow Rate = (C x i x A)	Q=	0.09	cfs
		1.5Q=	0.136	cfs

DMA-2

Flow-thru Design Flows		Worksheet B.6-1		
1	DCV	DCV	1672	cubic-feet
2	DCV retained	$DCV_{retained}$	360	cubic-feet
3	DCV biofiltered	$DCV_{biofiltered}$		cubic-feet
4	DCV requiring flow-thru (Line 1 - Line 2 - 0.67*Line 3	$DCV_{flow-thru}$	1312	cubic-feet
5	Adjustment factor (Line 4 / Line 1)*	AF=	0.78	unitless
6	Design rainfall intensity	i=	0.20	in/hr
7	Area tributary to BMP (s)	A=	1.14	acres
8	Area-weighted runoff factor (estimate using Appendix B.2)	C=	0.62	unitless
9	Calculate Flow Rate = (C x i x A)	Q=	0.11	cfs
		1.5Q=	0.167	cfs

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Appendix B: Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.6-1: Flow-Thru Design Flows

DMA-3

Flow-thru Design Flows		Worksheet B.6-1		
1	DCV	DCV	2375	cubic-feet
2	DCV retained	$DCV_{retained}$	540	cubic-feet
3	DCV biofiltered	$DCV_{biofiltered}$		cubic-feet
4	DCV requiring flow-thru (Line 1 - Line 2 - 0.67*Line 3	$DCV_{flow\text{-}thru}$	1835	cubic-feet
5	Adjustment factor (Line 4 / Line 1)*	AF=	0.77	unitless
6	Design rainfall intensity	i=	0.20	in/hr
7	Area tributary to BMP (s)	A=	1.60	acres
8	Area-weighted runoff factor (estimate using Appendix B.2)	C=	0.63	unitless
9	Calculate Flow Rate = (C x i x A)	Q=	0.16	cfs
		1.5Q=	0.233	cfs

DMA-4

Flow-thru Design Flows		Worksheet B.6-1		
1	DCV	DCV	2132	cubic-feet
2	DCV retained	$DCV_{retained}$	540	cubic-feet
3	DCV biofiltered	$DCV_{biofiltered}$		cubic-feet
4	DCV requiring flow-thru (Line 1 - Line 2 - 0.67*Line 3	$DCV_{flow\text{-}thru}$	1592	cubic-feet
5	Adjustment factor (Line 4 / Line 1)*	AF=	0.75	unitless
6	Design rainfall intensity	i=	0.20	in/hr
7	Area tributary to BMP (s)	A=	1.59	acres
8	Area-weighted runoff factor (estimate using Appendix B.2)	C=	0.57	unitless
9	Calculate Flow Rate = (C x i x A)	Q=	0.13	cfs
		1.5Q=	0.202	cfs

WASHINGTON STATE DEPARTMENT OF ECOLOGY

August 2019

GENERAL USE LEVEL DESIGNATION FOR BASIC (TSS) AND PHOSPHORUS

For

Rotondo Environmental Solutions, LLC's StormGarden Modular Stormwater Bio-filtration System Standard Box Filter

Ecology's Decision:

Based on Rotondo Environmental Solutions, LLC application submissions for the StormGarden Modular Stormwater Bio-filtration System (StormGarden System) standard box filter, Ecology hereby issues the following use level designation:

1. **General Use Level Designation (GULD) for Basic and Phosphorus Treatment.**
   - **Sized at a hydraulic loading rate of 1.45 gallon per minute (gpm) per square foot (sq ft) of media surface area.**
   - **Constructed with a minimum media thickness of 21-inches (1.75-feet).**
2. **Ecology approves the StormGarden System at the hydraulic loading rates listed above, to achieve the maximum water quality design flow rate. The water quality design flow rates are calculated using the following procedures:**
   - **Western Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using the latest version of the Western Washington Hydrology Model or other Ecology-approved continuous runoff model.**
   - **Eastern Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using one of the three methods described in Chapter 2.2.5 of the Stormwater Management Manual for Eastern Washington (SWMMEW) or local manual.**
   - **Entire State: For treatment installed downstream of detention, the water quality design flow rate is the full 2-year release rate of the detention facility.**

3. The GULD has no expiration date, but may be amended or revoked by Ecology.

<u>Ecology's Conditions of Use:</u>

The StormGarden System shall comply with these conditions:

1) **Applicants shall design, assemble, install, operate, and maintain the StormGarden System in accordance with Rotondo Environmental Solutions, LLC's applicable manuals and the Ecology Decision.**
2) **The minimum size filter surface-area for use in Washington is determined by using the design water quality flow rate (as determined in Ecology Decision, Item 3, above) and the Infiltration Rate (as identified in Ecology Decision, Item 1, above). Calculate the required area by dividing the water quality design flow rate (cu-ft/sec) by the Infiltration Rate (converted to ft/sec) to obtain required surface area (sq ft) of the StormTree unit.**
3) **Applicants must evaluate site characterization and suitability, as outlined in the Stormwater Management Manual for Western Washington Volume III or Stormwater Management Manual for Eastern Washington Chapter 6, before installing any StormGarden Systems that infiltrate a portion or all of the treated flow.**
4) **StormGarden media shall conform to the specifications submitted to and approved by Ecology.**
5) **Maintenance: The required inspection/maintenance interval for stormwater treatment devices is often dependent on the efficiency of the device and the degree of pollutant loading from a particular drainage basin. Therefor Ecology does not endorse or recommend a "one size fits all" maintenance cycle for a particular model/size of manufactured filter treatment device.**
    - **The StormGarden is designed for a target maintenance interval of 6- to 12-months. Maintenance includes inspecting the unit structure and media, removing trash, and silt from the filter surface, replacing the surface mulch layer, and assessing the health of the vegetation.**
    - **A StormGarden System tested at the Lake Union Ship Canal Test Facility in Seattle, WA required maintenance after 2.75 months or 20% of a water year. Monitoring personnel observed similar cases of early blinding with other systems evaluated at the Test Facility. The runoff from the Test Facility may be unusual and service needs of the systems installed at the Test Facility may not be indicative of other, more typical, sites.**
    - **Owners/operators must inspect StormGarden systems for a minimum of twelve months from the start of post-construction operation to determine site-specific inspection/maintenance schedules and requirements. Owners/operators must conduct inspections monthly during the wet season, and every other month during the dry season. (According to the SWMMWW, the wet season in western Washington is October 1 to April 30. According to the SWMMEW, the set season for eastern Washington is October 1 to June 30.) After the first year of operation, owners/operators must conduct inspections based on the findings during the first year of inspections.**

- **Conduct inspections by qualified personnel, follow manufacturer's guidelines, use methods capable of determining either a decrease in treated effluent flow rate and/or a decrease in pollutant removal ability.**

6) **Install the StormGarden System in such a manner that you bypass flows exceeding the maximum operating rate and you will not resuspend captured sediment.**

7) **Discharges from the StormGarden System shall not cause or contribute to water quality standards violations in receiving waters.**

Applicant: Rotondo Environmental Solutions, LLC

Applicant's Address: 4950-C Eisenhower Avenue
Alexandria, VA 22304

Application Documents:

Application for Pilot Use Level Designation, StormGarden (BioPod) High-Flow Media Bioretention System, Rotondo Environmental Solutions, LLC, January 2016

Emerging Stormwater Treatment Technologies Application for Certification: StornGarden (BioPod) Modular Stormwater Bio-filtration System, Rotondo Environmental Solutions, LLC, January 2016

Quality Assurance Project Plan, StormGarden (BioPod) Modular Stormwater Bio-Filtration System Performance Certification Project, Rotondo Environmental Solutions, LLC, March 2016

Addendum #1 StormGarden (BioPod) Pollutant Removal Efficiency Test, Rotondo Environmental Solutions, LLC, May 2016

Application for Conditional Use Level Designation, StormGarden™ Biofilter System Performance Certification Project, Rotondo Environmental Solutions, LLC, May 2018

Technical Evaluation Report, StormGarden™ BioFilter System Performance Certification Project, Rotondo Environmental Solutions, LLC, June 2019

Applicant's Use Level Request:

- General Use Level Designation as a Basic and Phosphorus Treatment device in accordance with Ecology's *Stormwater Management Manual for Western Washington*

Applicant's Performance Claims:
Based on results from laboratory and field-testing, the applicant claims the StormGarden System operating at a hydraulic loading rate of 140 inches per hour is able to remove:

- 80% of Total Suspended Solids (TSS) for influent concentrations greater than 100 mg/L and achieve a 20 mg/L effluent for influent concentrations less than 100 mg/L
- 50% or greater total phosphorus for influent concentrations 0.1 to 0.5 mg/L.

Ecology's Recommendations:
Ecology finds that:

- Rotondo Environmental Solutions, LLC has shown Ecology, through laboratory and field testing, that the StormGarden System can attain Ecology's Basic and Phosphorus Treatment goals.

Findings of Fact:
Field Testing

1. Herrera Environmental Consultants conducted field-testing between May 2017 – November 2018 at the Lake Union Ship Canal Test Facility in Seattle, WA. Herrera tested a 4'x6' unit with a treatment flow rate of 0.078 cfs (35 gpm). The unit contained the standard StormGarden System media composition: a 3-inch layer of shredded wooden mulch; 21-inches of specially engineered soil media; and a 6-inch layer of bridging gravel.
    - The D_{50} of the influent PSD ranged from 3 microns to 111 microns, with an average D_{50} of 33 microns.
    - TSS removal efficiency was evaluated over 15 qualifying storm events. Influent TSS concentrations during these events ranged from 20 mg/L to 289 mg/L with a mean concentration of 55 mg/L. The bootstrap estimate of the lower 95 percent confidence limit (LCL95) of the mean TSS reduction was 85.1% and the bootstrap estimate of the upper 95 percent confidence limit (UCL95) of the mean TSS effluent concentration was 5.4 mg/L. A regression analysis of sampled flow rate versus TSS removal indicated the system can achieve ≥80 percent removal at the design flow rate of 35 gallons per minute (140 inches per hour).
    - Total phosphorus removal efficiency was evaluated over 19 qualifying storm events. Influent total phosphorus concentrations during these events ranged from 0.03 mg/L to 0.346 mg/L, with a mean concentration of 0.099 mg/L. The bootstrap estimate of the LCL95 of the mean total phosphorus reduction was 53.4%. A regression analysis of sampled flow rate versus phosphorus removal indicated the system can achieve ≥50 percent removal at the design flow rate of 35 gallons per minute (140 inches per hour).
    - The system needed to have the mulch replaced 5 times during the 19-month monitoring period. The longest maintenance cycle lasted 2.75 months, or 20% of the water year. Monitoring personnel observed similar sediment loading and blinding issues with other systems evaluated at the Lake Union Ship Canal Test Facility. The runoff from the Test Facility may induce this early blinding, and maintenance requirements of systems installed at the Test Facility may not be indicative of maintenance requirements for all sites.

Results showed an average TSS removal efficiency of 89.6 percent (LCL95 of 85.3 percent).
    - During the 10 events evaluated during the 200 inches per infiltration rate influent TSS concentration ranged from 41 to 160 mg/L (average of 130 mg/L). Results showed an average TSS removal efficiency of 80.6 percent (LCL95 of 75.1 percent).
- The StormGarden System was also evaluated for dissolved phosphorus, total copper, and total zinc using synthetic runoff solutions. Ecology does not allow the use of synthetic stormwater in pursuit of a ULD for phosphorus or metals, so the PULD is limited to Basic Treatment.
    - Liquid phosphorus (Inorganic Ventures inorganic ion chromatography solution – ICPP041 – Lot No. J2-POX01109), prepared using ammonium dihydrogen phosphate ($NH_4H_2PO_4$) at a concentration of 1,000 µg/ml (certified 997±3 µg/ml), was used to produce synthetic stormwater runoff. The StormGarden System showed an average dissolved phosphorus removal efficiency of 6.2 percent (LCL95 2.1 percent) at an average influent concentration of 1.10 mg/L and an infiltration rate of 140 inches per hour. The StormGarden System showed an average dissolved phosphorus removal efficiency of 5.4 percent (LCL95 3.6 percent) at an average influent concentration of 0.78 mg/L and an infiltration rate of 200 inches per hour.
    - Liquid copper (SCP Science AA standard solution – 140-001-291 – Lot no. S150225013), prepared using elemental copper HNO_3 to formulate copper solution of 1,000 µg/ml (certified 1002±3 µg/ml) was used to produce synthetic stormwater runoff. The StormGarden System showed an average total copper removal efficiency of 93.2 percent (LCL95 90.3 percent) at an average influent concentration of 0.90 mg/L and an infiltration rate of 140 inches per hour. The StormGarden System showed an average total copper removal efficiency of 85.1 percent (LCL95 84.1 percent) at an average influent concentration of 0.11 mg/L and an infiltration rate of 200 inches per hour.
    - Liquid zinc (SCP Science AA standard solution – 140-001-301 – Lot No. S150126014), prepared using elemental zinc and HNO_3 to formulate a zinc solution of 1,000 µg/ml (certified 996±3 µg/ml), was used to produce synthetic runoff. The StormGarden System showed an average total zinc removal efficiency of 70.7 percent (LCL95 62.4 percent) at an average influent concentration of 0.95 mg/L and an infiltration rate of 140 inches per hour. The StormGarden System showed an average total zinc removal efficiency of 63.6 percent (LCL95 62.6 percent) at an average influent concentration of 0.29 mg/L and an infiltration rate of 200 inches per hour.

Other StormGarden System Related Issues to be Addressed By the Company:

1. Conduct hydraulic testing to obtain information about maintenance requirements on a site with runoff that is more typical of the Pacific Northwest.

Laboratory Testing

1. MicroBAC Laboratories of Baltimore Maryland conducted laboratory testing in September 2015. The laboratory tested four 6-inch diameter columns at an infiltration rate of 46 inches per hour. The columns contained the same media composition as the StormGarden Modular Stormwater Bio-filtration System Standard Box Filter: a 3-inch surface layer of shredded hardwood mulch; 21-inches of Rotondo Environmental Solutions StormGarden High Flow Media; and a 6-inch bed of AASHTO No. 8 stone. Based on the lab test results:
   - The StormGarden System was evaluated using Sil-co-sil 106, which is shown to be a silt-sized material with a median (D_{50}) diameter of about 22 µm.
   - Removal efficiency was evaluated over 10 events using influent TSS concentration of 20 mg/L, 10 events at 100 mg/L, and 10 events at 200 mg/L. At these influent concentrations, the results showed an average removal efficiency of 93 percent, 94 percent, and 98 percent of TSS, respectively.
   - The StormGarden System was also evaluated for total phosphorus, total copper, and total zinc using synthetic runoff solutions. Ecology does not allow the use of synthetic stormwater in pursuit of a ULD for phosphorus or metals, so the PULD is limited to Basic Treatment.
     - Liquid phosphorus (Inorganic Ventures inorganic ion chromatography solution – ICPP041 – Lot No. J2-POX01109), prepared using ammonium dihydrogen phosphate ($NH_4H_2PO_4$) at a concentration of 1,000 µg/ml (certified 997±3 µg/ml) was used to produce synthetic runoff with a total phosphorus concentration of 0.5 mg/L. Results from 10 events showed an average phosphorus removal efficiency of 17.6 percent.
     - Liquid copper (SCP Science AA standard solution – 140-001-291 – Lot no. S150225013), prepared using elemental copper HNO_3 to formulate copper solution of 1,000 µg/ml (certified 1002±3 µg/ml), was used to produce synthetic runoff with a total copper concentration of 0.02 mg/L. Results from 10 events showed an average copper removal efficiency of 75 percent.
     - Liquid zinc (SCP Science AA standard solution – 140-001-301 – Lot No. S150126014), prepared using elemental zinc and HNO_3 to formulate a zinc solution of 1,000 µg/ml (certified 996±3 µg/ml), was used to produce synthetic runoff with a total zinc concentration of 0.3 mg/L. Results from 10 events showed an average zinc removal efficiency of 93 percent.

2. MicroBAC Laboratories of Baltimore Maryland conducted laboratory testing in April and May 2016. The laboratory tested a 6-inch diameter column at infiltration rates of 140 inches per hour and 200 inches per hour. For both tests, the column contained the same media composition as the StormGarden Modular Stormwater Bio-filtration System Standard Box Filter: a 3-inch surface layer of shredded hardwood mulch; 21-inches of Rotondo Environmental Solutions StormGarden High Flow Media; and a 6-inch bed of AASHTO No. 8 stone. Based on the lab test results:
   - The system was evaluated using Sil-co-sil 106, which is shown to be a silt-sized material with a median (D50) diameter of about 22 µm.
   - Removal efficiency was evaluated over 10 events at an infiltration rate of 140 inches per hour and 10 events at an infiltration rate of 200 inches per hour.
     - During the 10 events evaluated during the 140 inches per hour infiltration rate influent TSS concentration ranged from 86 to 180 mg/L (average of 130 mg/L).

Technology Description: Download at http://www.rotondo-es.com/

Contact Information:

Applicant: John Rotondo
Rotondo Environmental Solutions, LLC
(703) 212-4830
john@rotondo-es.com

Applicant website: http://www.rotondo-es.com/

Ecology web link: http://www.ecy.wa.gov/programs/wq/stormwater/newtech/index.html

Ecology: Douglas C. Howie, P.E.
Department of Ecology
Water Quality Program
(360) 407-6444
douglas.howie@ecy.wa.gov

Revision History

Date	Revision
June 2016	PULD Granted
August 2017	Changed Device Name from BioPod to StormGarden
July 2018	CULD Granted
July 2019	GULD Granted
August 2019	Added sizing guidance based on infiltration rate and water quality design flow rate.
August 2019	Added requirement for installations that infiltrate all or part of the treated flow.

ATTACHMENT 2 – HYDROMODIFICATION MANAGEMENT CONTROLS: SUPPORT DOCUMENTATION & CHECKLIST

☐ Check this box if this attachment is empty because the project is exempt from PDP hydromodification management requirements.

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

Attachment Sequence	Contents	Checklist
Attachment 2A	Hydromodification Management Exhibit	☒ Included See Hydromodification Management Exhibit Checklist on the back of this Attachment cover sheet.
Attachment 2B	Management of Critical Coarse Sediment Yield Areas See Section 6.2 of the *BMP Design Manual*.	☒ Exhibit showing project drainage boundaries marked on WMAA Critical Coarse Sediment Yield Area Map Analyses, as applicable, for Critical Coarse Sediment Yield Area Determination, per *BMP Design Manual:* ☐ 6.2.1 Verification of Geomorphic Landscape Units Onsite ☐ 6.2.2 Downstream Systems Sensitivity to Coarse Sediment ☐ 6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite
Attachment 2C	Geomorphic Assessment of Receiving Channels See Section 6.3.4 of the *BMP Design Manual*.	☒ Not performed ☐ Included ☐ Submitted as separate stand-alone document
Attachment 2D	Flow Control Facility Design, including Structural BMP Drawdown Calculations and Overflow Design Summary See Chapter 6 and Appendix G of the *BMP Design Manual*	☒ Included ☐ Submitted as separate stand-alone document
Attachment 2E	Vector Control Plan	☐ Included ☒ Not required because BMPs will drain in less than 96 hours

ATTACHMENT 2A – HYDROMODIFICATION MANAGEMENT EXHIBIT

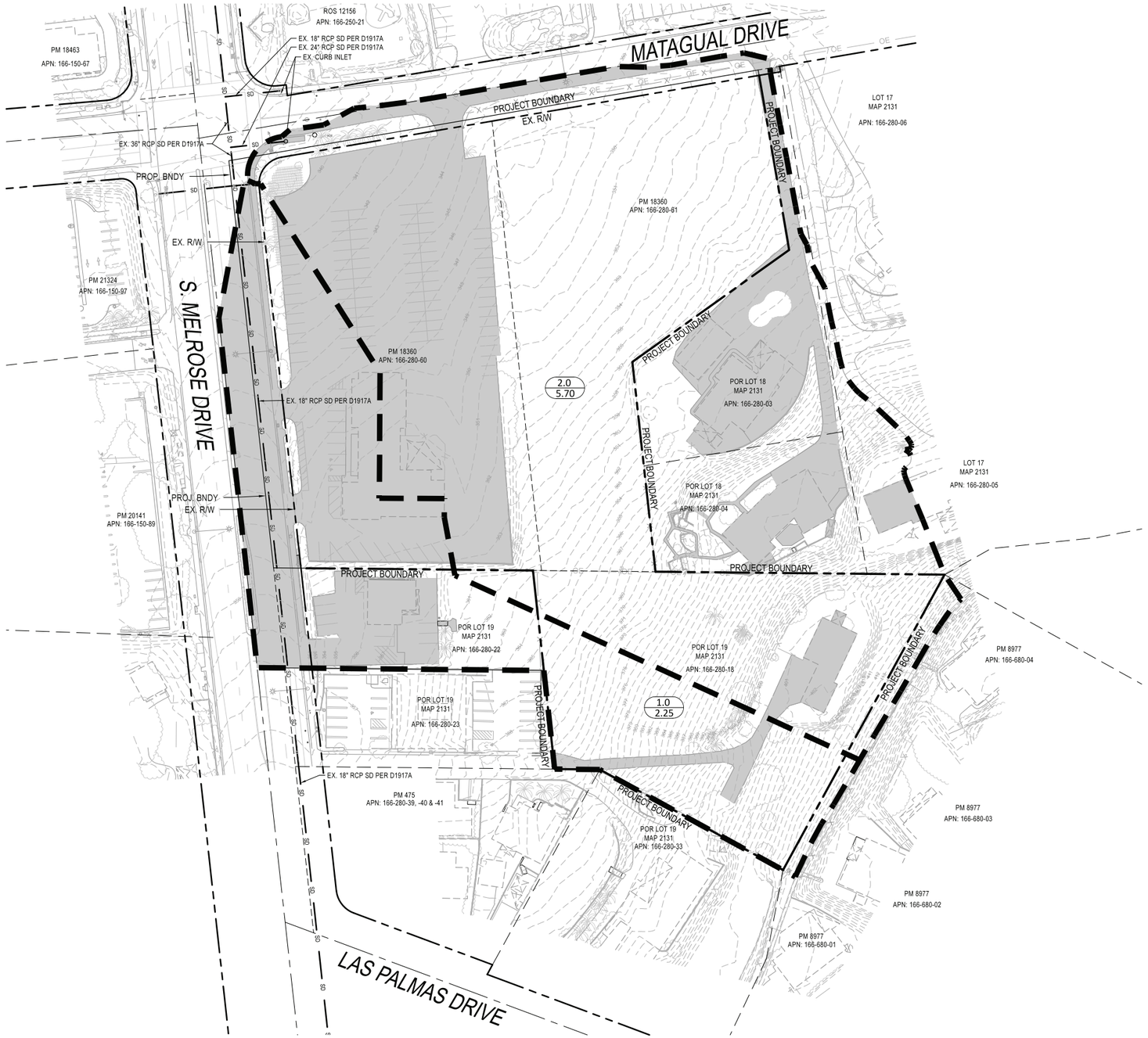
For Attachment 2A, provide map(s) for the project site, titled "Hydromodification Management Exhibit." The checklist below identifies minimum elements that must be included with the exhibit.

- ☐ Underlying hydrologic soil group
- ☐ Approximate depth to groundwater
- ☐ Existing natural hydrologic features (watercourses, seeps, springs, wetlands, etc.)
- ☐ Critical coarse sediment yield areas to be protected
- ☐ Existing topography and impervious areas
- ☐ Existing and proposed site drainage network and storm drain structures
- ☐ Proposed connections to offsite drainage
- ☐ Proposed demolition
- ☐ Proposed grading
- ☐ Proposed impervious features
- ☐ Proposed design features and surface treatments used to minimize imperviousness
- ☐ Points of Compliance for hydromodification management
- ☒ Existing and proposed drainage boundary and drainage area to each Point of Compliance (when necessary, create separate exhibits for pre-development and post-project conditions)
- ☐ Structural BMPs for hydromodification management (location, type, and size)

HMP EXHIBIT

PRE-PROJECT CONDITIONS

MELROSE & MATAGUAL



LEGEND

- BASIN BOUNDARY
- BASIN ID / BASIN AREA (ACRES) — 1.0 / 0.23
- IMPERVIOUS AREA
- PERVIOUS AREA

0 50 100 150

SCALE: 1" = 50'

HMP EXHIBIT
PRE-PROJECT CONDITIONS
MELROSE & MATAGUAL
CITY OF SAN MARCOS

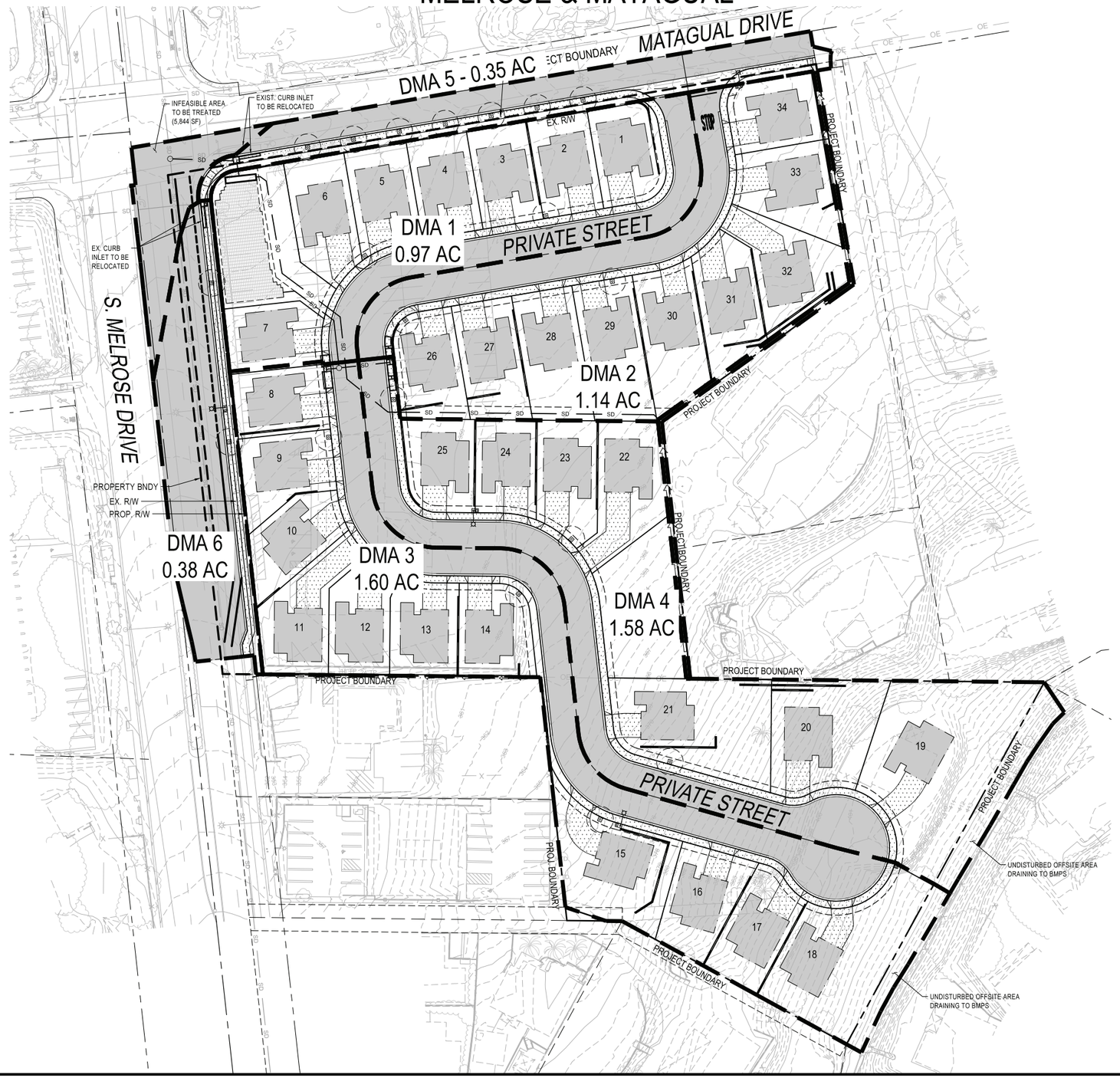
PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

SAVE DATE: 11/21/22 ~ PLOT DATE: 11/22/22 ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\SWQMP\Att 2A - HMP Exhibits\3684_HMP Exhibit Existing.dwg

HMP EXHIBIT

POST-PROJECT CONDITIONS

MELROSE & MATAGUAL



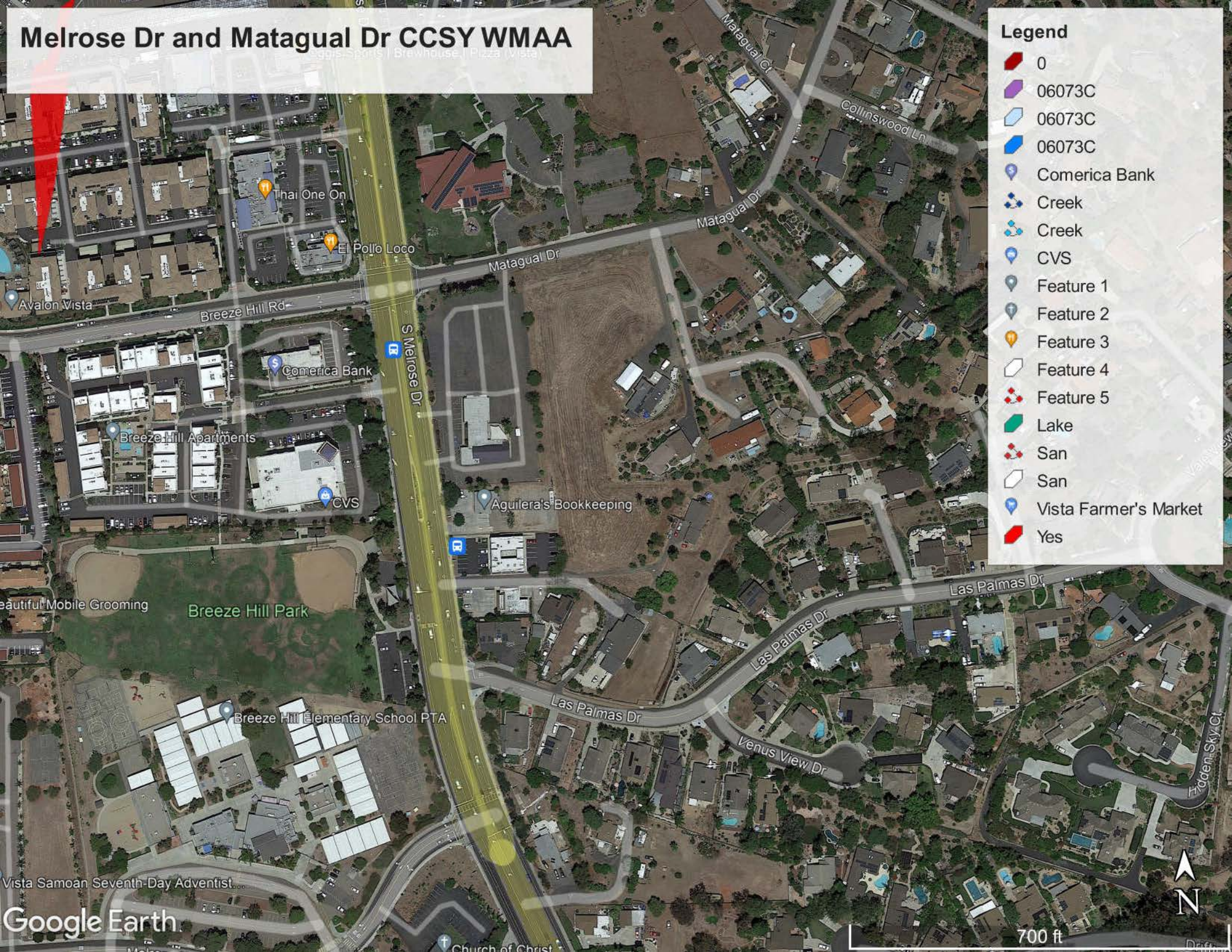
0 40 80 120

SCALE: 1" = 40'

HMP EXHIBIT
POST-PROJECT CONDITIONS
MELROSE & MATAGUAL
CITY OF SAN MARCOS

PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

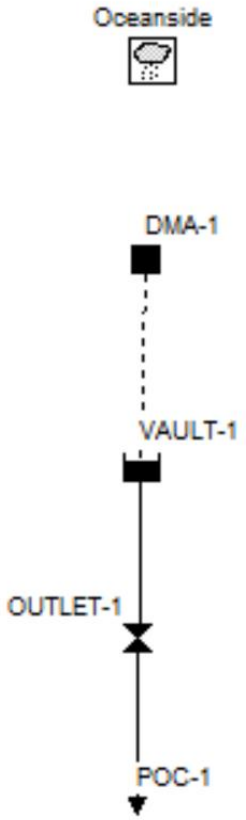
ATTACHMENT 2b


Melrose Dr and Matagual Dr CCSY WMAA
Legend
0
06073C
06073C
06073C
Comerica Bank
Creek
Creek
CVS
Feature 1
Feature 2
Feature 3
Feature 4
Feature 5
Lake
San
San
Vista Farmer's Market
Yes
Matagual Ct
Collinswood Ln
Thai One On
El Pollo Loco
Matagual Dr
Avalon Vista
Breeze Hill Rd
S Melrose Dr
Comerica Bank
Breeze Hill Apartments
CVS
Aguilera's Bookkeeping
Las Palmas Dr
Breeze Hill Park
Breeze Hill Elementary School PTA
Venus View Dr
Hidden Sky Ct
Vista Samoan Seventh-Day Adventist...
Google Earth
N
700 ft

ATTACHMENT 2d

POC-1

SWMM MODEL SCHEMATICS

PRE-DEVELOPMENT MODEL	POST-PROJECT MODEL
	

POC-1

PRE-DEVELOPMENT

DMA	N-perv	Area (ac)	Width (Area/Flow Length) (ft)	% Slope	% Impervious	% C Soils	% D Soils	Weighted Infiltration (in/hr):	Weighted Suction Head (in):	Weighted Initial Deficit:
DMA-1	0.08	5.29	829	7.0%	0%	0%	100%	0.025	9.000	0.330
	Total:	**5.29**								

POST-PROJECT

DMA	N-perv	Area (ac)	Width (Area/Flow Length) (ft)	% Slope	% Impervious	% C Soils	% D Soils	Weighted Infiltration (in/hr):	Weighted Suction Head (in):	Weighted Initial Deficit:
DMA-1	0.06	5.29	5121	10.0%	51%	0%	100%	0.01875	9.000	0.330
	Total:	**5.29**								

Infiltration:		
D	0.025	in/hr

Suction Head:		
D	9	in

Initial Deficit:	
D	0.33

POC-1

```
[TITLE]
;;Project Title/Notes
3684 Melrose and Matagual
Pre-Development Condition
POC-1

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           08/28/1951
START_TIME           05:00:00
REPORT_START_DATE    08/28/1951
REPORT_START_TIME    05:00:00
END_DATE             05/23/2008
END_TIME             23:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             00:15:00
DRY_STEP             04:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.557
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          .06    .08    .11    .15    .17    .19    .19    .18    .15    .11    .08    .06
DRY_ONLY         NO

[RAINGAGES]
```

POC-1

```
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
Oceanside        INTENSITY 1:00     1.0      TIMESERIES Oceanside

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- -------- ----------------
DMA-1            Oceanside        poc-1            5.29     0        829      7        0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
DMA-1            0.012      0.08       0.05       0.1        25         OUTLET

[INFILTRATION]
;;Subcatchment   Suction    Ksat       IMD
;;-------------- ---------- ---------- ----------
DMA-1            9          0.025      0.33

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
;Basin 1
POC-1            0          FREE                        NO

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
Oceanside        FILE "J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\SWQMP\SWMM\Rain Data\oceanside.dat"

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 0.000 0.000 10000.000 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC-1            995.831            5101.735

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
```

POC-1

```
[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
DMA-1            1006.431           6977.959

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
Oceanside        1053.922           8357.843
```

POC-1

```
[TITLE]
;;Project Title/Notes
3684 Melrose and Matagual
Proposed Condition

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           08/28/1951
START_TIME           05:00:00
REPORT_START_DATE    08/28/1951
REPORT_START_TIME    05:00:00
END_DATE             05/23/2008
END_TIME             23:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             00:15:00
DRY_STEP             04:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.557
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          .06    .08    .11    .15    .17    .19    .19    .18    .15    .11    .08    .06
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
```

POC-1

```
;;-------------- --------- ------ ------ ----------
Oceanside        INTENSITY 1:00     1.0      TIMESERIES Oceanside

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- -------- ----------------
DMA-1            Oceanside        VAULT-1          5.29     51       5121     10       0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
DMA-1            0.012      0.06       0.05       0.1        25         OUTLET

[INFILTRATION]
;;Subcatchment   Suction    Ksat       IMD
;;-------------- ---------- ---------- ----------
DMA-1            9          .01875     0.33

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
POC-1            0          FREE                        NO

[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Name/Params            N/A      Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ---------- ---------- ---------------------------- -------- --------          -------- --------
VAULT-1          0        6.75       0          TABULAR    VAULT-1                      0        0

[OUTLETS]
;;Name           From Node        To Node          Offset     Type            QTable/Qcoeff    Qexpon     Gated
;;-------------- ---------------- ---------------- ---------- --------------- ---------------- ---------- --------
OUTLET-1         VAULT-1          POC-1            0          TABULAR/DEPTH   OUTLET-1                    NO

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
OUTLET-1         Rating     0          0
OUTLET-1                    0.2        0.05
OUTLET-1                    0.4        0.09
OUTLET-1                    0.6        0.12
OUTLET-1                    0.8        0.14
OUTLET-1                    1          0.16
OUTLET-1                    1.2        0.17
OUTLET-1                    1.4        0.19
OUTLET-1                    1.6        0.2
OUTLET-1                    1.8        0.21
OUTLET-1                    2          0.23
OUTLET-1                    2.2        0.24
OUTLET-1                    2.4        0.25
OUTLET-1                    2.6        0.26
OUTLET-1                    2.8        0.27
```

POC-1

```
OUTLET-1                    3          0.28
OUTLET-1                    3.2        0.29
OUTLET-1                    3.4        0.3
OUTLET-1                    3.6        0.31
OUTLET-1                    3.8        0.32
OUTLET-1                    4          0.32
OUTLET-1                    4.2        0.76
OUTLET-1                    4.4        1.56
OUTLET-1                    4.6        2.21
OUTLET-1                    4.8        2.66
OUTLET-1                    5          3.03
OUTLET-1                    5.2        3.36
OUTLET-1                    5.4        3.66
OUTLET-1                    5.6        3.93
OUTLET-1                    5.8        4.19
OUTLET-1                    6          4.42
OUTLET-1                    6.2        4.65
OUTLET-1                    6.4        8.67
OUTLET-1                    6.6        18.63
OUTLET-1                    6.75       28.38
;
VAULT-1          Storage    0          3040
VAULT-1                     6.75       3040

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
Oceanside        FILE "J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\REPORTS\SWQMP\SWMM\Rain Data\oceanside.dat"

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 0.000 0.000 10000.000 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC-1            948.454            1927.835
VAULT-1          982.801            5024.570

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
```

POC-1

```
[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
DMA-1            1031.941           6965.602

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
Oceanside        1130.221           8759.214
```

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.013)
--------------------------------------------------------------

3684 Melrose and Matagual
Pre-Development Condition
POC-1


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... NO
  Water Quality .......... NO
Infiltration Method ...... GREEN_AMPT
Starting Date ............ 08/28/1951 05:00:00
Ending Date .............. 05/23/2008 23:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 01:00:00
Wet Time Step ............ 00:15:00
Dry Time Step ............ 04:00:00


*************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
*************************     ---------       -------
Total Precipitation ......       297.602       675.090
Evaporation Loss .........        10.611        24.071
Infiltration Loss ........       230.036       521.820
Surface Runoff ...........        62.705       142.242
Final Storage ............         0.000         0.000
Continuity Error (%) .....        -1.932


*************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
*************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        62.705        20.433
```

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	62.705	20.433
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DMA-1	675.09	0.00	24.07	521.82	0.00	142.24	142.24	20.43	5.92	0.211

Analysis begun on: Wed Mar 9 09:21:01 2022
Analysis ended on: Wed Mar 9 09:21:40 2022
Total elapsed time: 00:00:39

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.013)
--------------------------------------------------------------

3684 Melrose and Matagual
Proposed Condition


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... GREEN_AMPT
Flow Routing Method ...... KINWAVE
Starting Date ............ 08/28/1951 05:00:00
Ending Date .............. 05/23/2008 23:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 01:00:00
Wet Time Step ............ 00:15:00
Dry Time Step ............ 04:00:00
Routing Time Step ........ 60.00 sec


*************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
*************************     ---------       -------
Total Precipitation ......       297.602       675.090
Evaporation Loss .........        28.030        63.583
Infiltration Loss ........       103.486       234.750
Surface Runoff ...........       173.502       393.578
Final Storage ............         0.009         0.020
Continuity Error (%) .....        -2.495


*************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
*************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       173.501        56.538
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
```

External Inflow	0.000	0.000
External Outflow	173.442	56.519
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.003	0.001
Continuity Error (%)	0.032	

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****

Minimum Time Step	:	60.00 sec
Average Time Step	:	60.00 sec
Maximum Time Step	:	60.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	1.00
Percent Not Converging	:	0.00

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DMA-1	675.09	0.00	63.58	234.75	300.66	92.92	393.58	56.53	6.20	0.583

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
POC-1	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
VAULT-1	STORAGE	0.03	6.28	6.28	18857 11:58	6.28

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
POC-1	OUTFALL	0.00	6.21	18857 11:58	0	56.5	0.000
VAULT-1	STORAGE	6.20	6.20	18857 12:01	56.5	56.5	0.032

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
VAULT-1	0.083	0	0	0	19.086	93	18857 11:56	6.21

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POC-1	6.77	0.06	6.21	56.514
System	6.77	0.06	6.21	56.514

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
OUTLET-1	DUMMY	6.21	18857 11:58			

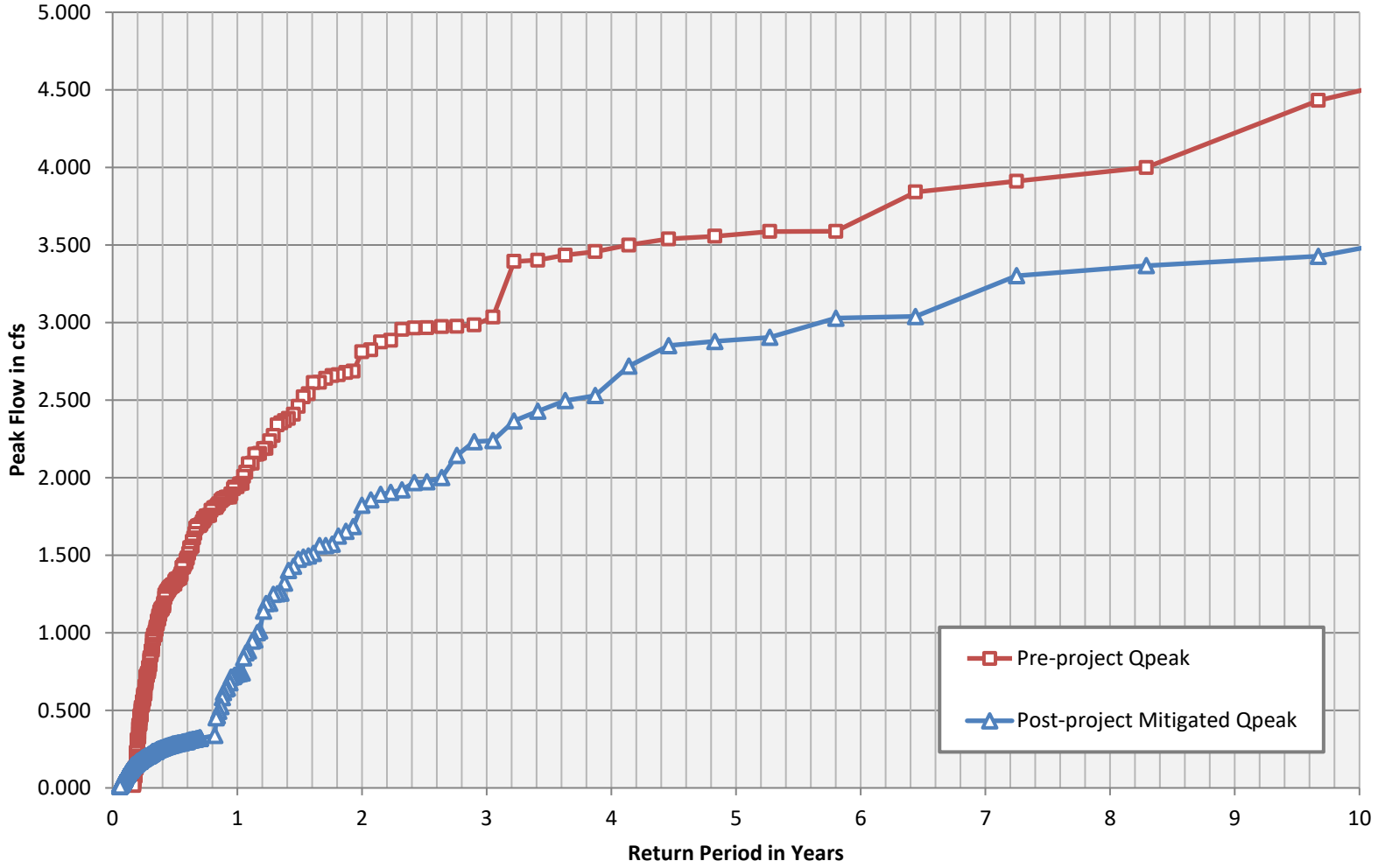
```
  ************************
  Conduit Surcharge Summary
  ************************

  No conduits were surcharged.


  Analysis begun on:  Tue Sep 20 12:23:22 2022
  Analysis ended on:  Tue Sep 20 12:24:09 2022
  Total elapsed time: 00:00:47
```

POC-1

Peak Flow Frequency Summary

Return Period	Pre-project Qpeak (cfs)	Post-project - Mitigated Q (cfs)
LF = 0.1xQ2	0.281	0.182
2-year	2.812	1.822
5-year	3.568	2.888
10-year	4.495	3.477

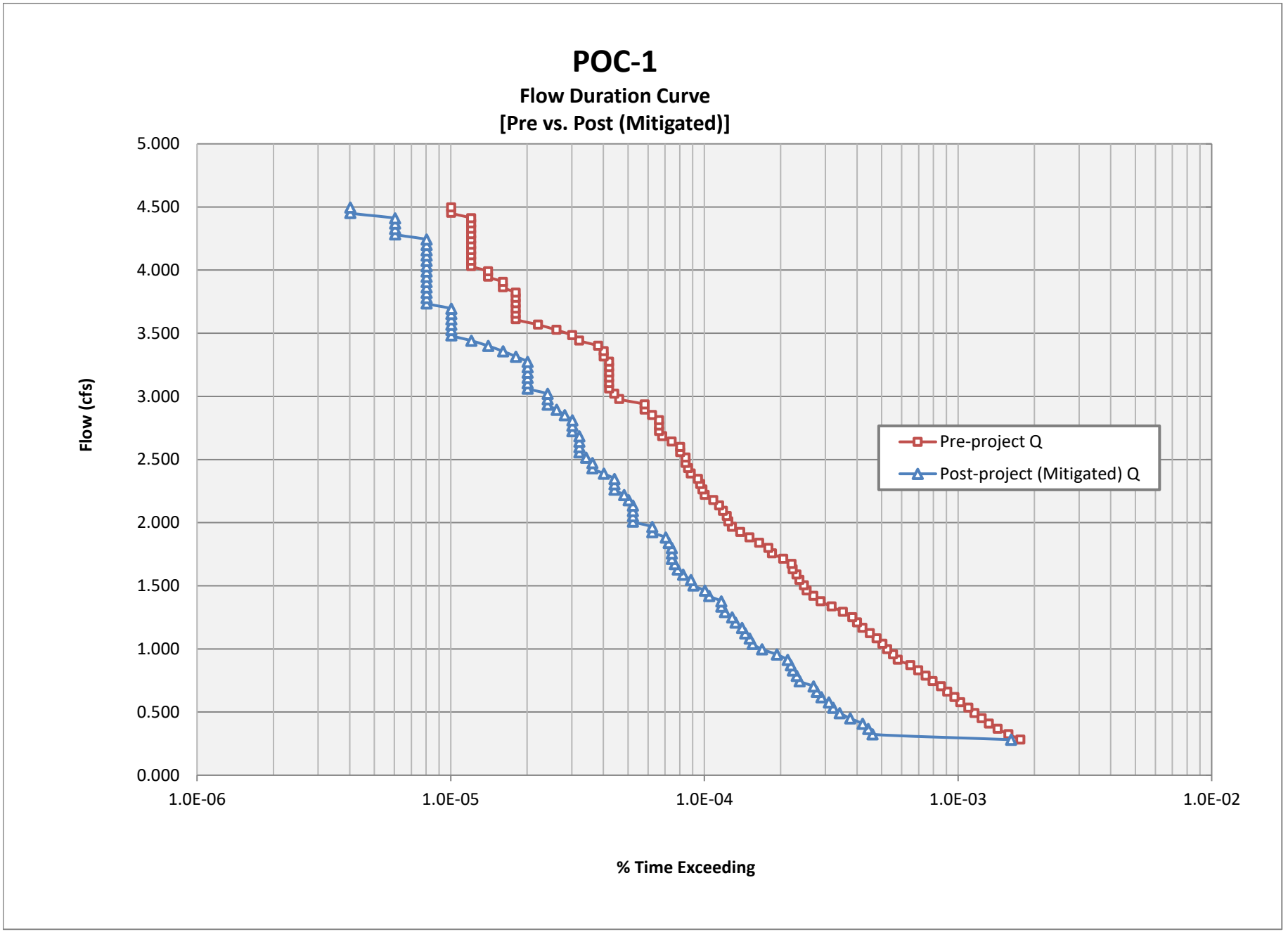
POC-1
Peak Flow Frequency Curves



Low-flow Threshold:	10%		**POC-1**
0.1xQ2 (Pre):	0.281	cfs	
Q10 (Pre):	4.495	cfs	
Ordinate #:	100		
Incremental Q (Pre):	0.04213	cfs	
Total Hourly Data:	497370	hours	**The proposed BMP:** PASSED

Interval	Pre-project Flow (cfs)	Pre-project Hours	Pre-project % Time Exceeding	Post-project Hours	Post-project % Time Exceeding	Percentage	Pass/Fail
0	0.281	878	1.77E-03	806	1.62E-03	92%	Pass
1	0.323	788	1.58E-03	229	4.60E-04	29%	Pass
2	0.365	714	1.44E-03	220	4.42E-04	31%	Pass
3	0.408	659	1.32E-03	209	4.20E-04	32%	Pass
4	0.450	618	1.24E-03	187	3.76E-04	30%	Pass
5	0.492	578	1.16E-03	170	3.42E-04	29%	Pass
6	0.534	547	1.10E-03	160	3.22E-04	29%	Pass
7	0.576	509	1.02E-03	154	3.10E-04	30%	Pass
8	0.618	482	9.69E-04	144	2.90E-04	30%	Pass
9	0.660	452	9.09E-04	138	2.77E-04	31%	Pass
10	0.703	427	8.59E-04	134	2.69E-04	31%	Pass
11	0.745	396	7.96E-04	118	2.37E-04	30%	Pass
12	0.787	371	7.46E-04	115	2.31E-04	31%	Pass
13	0.829	347	6.98E-04	111	2.23E-04	32%	Pass
14	0.871	323	6.49E-04	109	2.19E-04	34%	Pass
15	0.913	288	5.79E-04	106	2.13E-04	37%	Pass
16	0.955	276	5.55E-04	96	1.93E-04	35%	Pass
17	0.997	262	5.27E-04	84	1.69E-04	32%	Pass
18	1.040	251	5.05E-04	77	1.55E-04	31%	Pass
19	1.082	238	4.79E-04	75	1.51E-04	32%	Pass
20	1.124	224	4.50E-04	72	1.45E-04	32%	Pass
21	1.166	209	4.20E-04	70	1.41E-04	33%	Pass
22	1.208	199	4.00E-04	66	1.33E-04	33%	Pass
23	1.250	191	3.84E-04	64	1.29E-04	34%	Pass
24	1.292	175	3.52E-04	60	1.21E-04	34%	Pass
25	1.335	158	3.18E-04	58	1.17E-04	37%	Pass
26	1.377	143	2.88E-04	58	1.17E-04	41%	Pass
27	1.419	134	2.69E-04	52	1.05E-04	39%	Pass
28	1.461	126	2.53E-04	50	1.01E-04	40%	Pass
29	1.503	123	2.47E-04	45	9.05E-05	37%	Pass
30	1.545	118	2.37E-04	44	8.85E-05	37%	Pass
31	1.587	115	2.31E-04	41	8.24E-05	36%	Pass
32	1.629	111	2.23E-04	39	7.84E-05	35%	Pass
33	1.672	110	2.21E-04	38	7.64E-05	35%	Pass
34	1.714	102	2.05E-04	37	7.44E-05	36%	Pass
35	1.756	92	1.85E-04	37	7.44E-05	40%	Pass
36	1.798	89	1.79E-04	37	7.44E-05	42%	Pass
37	1.840	82	1.65E-04	36	7.24E-05	44%	Pass
38	1.882	75	1.51E-04	35	7.04E-05	47%	Pass
39	1.924	69	1.39E-04	31	6.23E-05	45%	Pass
40	1.967	64	1.29E-04	31	6.23E-05	48%	Pass
41	2.009	62	1.25E-04	26	5.23E-05	42%	Pass
42	2.051	61	1.23E-04	26	5.23E-05	43%	Pass
43	2.093	59	1.19E-04	26	5.23E-05	44%	Pass
44	2.135	57	1.15E-04	26	5.23E-05	46%	Pass
45	2.177	54	1.09E-04	25	5.03E-05	46%	Pass
46	2.219	50	1.01E-04	24	4.83E-05	48%	Pass
47	2.261	49	9.85E-05	22	4.42E-05	45%	Pass
48	2.304	48	9.65E-05	22	4.42E-05	46%	Pass
49	2.346	47	9.45E-05	22	4.42E-05	47%	Pass
50	2.388	44	8.85E-05	20	4.02E-05	45%	Pass
51	2.430	43	8.65E-05	18	3.62E-05	42%	Pass
52	2.472	42	8.44E-05	18	3.62E-05	43%	Pass
53	2.514	42	8.44E-05	17	3.42E-05	40%	Pass
54	2.556	40	8.04E-05	16	3.22E-05	40%	Pass

Interval	Pre-project Flow (cfs)	Pre-project Hours	Pre-project % Time Exceeding	Post-project Hours	Post-project % Time Exceeding	Percentage	Pass/Fail
55	2.599	40	8.04E-05	16	3.22E-05	40%	Pass
56	2.641	37	7.44E-05	16	3.22E-05	43%	Pass
57	2.683	34	6.84E-05	16	3.22E-05	47%	Pass
58	2.725	33	6.63E-05	15	3.02E-05	45%	Pass
59	2.767	33	6.63E-05	15	3.02E-05	45%	Pass
60	2.809	33	6.63E-05	15	3.02E-05	45%	Pass
61	2.851	31	6.23E-05	14	2.81E-05	45%	Pass
62	2.893	29	5.83E-05	13	2.61E-05	45%	Pass
63	2.936	29	5.83E-05	12	2.41E-05	41%	Pass
64	2.978	23	4.62E-05	12	2.41E-05	52%	Pass
65	3.020	22	4.42E-05	12	2.41E-05	55%	Pass
66	3.062	21	4.22E-05	10	2.01E-05	48%	Pass
67	3.104	21	4.22E-05	10	2.01E-05	48%	Pass
68	3.146	21	4.22E-05	10	2.01E-05	48%	Pass
69	3.188	21	4.22E-05	10	2.01E-05	48%	Pass
70	3.231	21	4.22E-05	10	2.01E-05	48%	Pass
71	3.273	21	4.22E-05	10	2.01E-05	48%	Pass
72	3.315	20	4.02E-05	9	1.81E-05	45%	Pass
73	3.357	20	4.02E-05	8	1.61E-05	40%	Pass
74	3.399	19	3.82E-05	7	1.41E-05	37%	Pass
75	3.441	16	3.22E-05	6	1.21E-05	38%	Pass
76	3.483	15	3.02E-05	5	1.01E-05	33%	Pass
77	3.526	13	2.61E-05	5	1.01E-05	38%	Pass
78	3.568	11	2.21E-05	5	1.01E-05	45%	Pass
79	3.610	9	1.81E-05	5	1.01E-05	56%	Pass
80	3.652	9	1.81E-05	5	1.01E-05	56%	Pass
81	3.694	9	1.81E-05	5	1.01E-05	56%	Pass
82	3.736	9	1.81E-05	4	8.04E-06	44%	Pass
83	3.778	9	1.81E-05	4	8.04E-06	44%	Pass
84	3.820	9	1.81E-05	4	8.04E-06	44%	Pass
85	3.863	8	1.61E-05	4	8.04E-06	50%	Pass
86	3.905	8	1.61E-05	4	8.04E-06	50%	Pass
87	3.947	7	1.41E-05	4	8.04E-06	57%	Pass
88	3.989	7	1.41E-05	4	8.04E-06	57%	Pass
89	4.031	6	1.21E-05	4	8.04E-06	67%	Pass
90	4.073	6	1.21E-05	4	8.04E-06	67%	Pass
91	4.115	6	1.21E-05	4	8.04E-06	67%	Pass
92	4.158	6	1.21E-05	4	8.04E-06	67%	Pass
93	4.200	6	1.21E-05	4	8.04E-06	67%	Pass
94	4.242	6	1.21E-05	4	8.04E-06	67%	Pass
95	4.284	6	1.21E-05	3	6.03E-06	50%	Pass
96	4.326	6	1.21E-05	3	6.03E-06	50%	Pass
97	4.368	6	1.21E-05	3	6.03E-06	50%	Pass
98	4.410	6	1.21E-05	3	6.03E-06	50%	Pass
99	4.452	5	1.01E-05	2	4.02E-06	40%	Pass
100	4.495	5	1.01E-05	2	4.02E-06	40%	Pass


POC-1
Flow Duration Curve
[Pre vs. Post (Mitigated)]
Flow (cfs)
5.000
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
1.0E-06
1.0E-05
1.0E-04
1.0E-03
1.0E-02
% Time Exceeding
Pre-project Q
Post-project (Mitigated) Q

Summary for Pond 6P: Vault-1 100-yr

Volume	Invert	Avail.Storage	Storage Description
#1	100.00'	20,520 cf	**Custom Stage Data (Conic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
100.00	3,200	0.0	0	0	3,200
101.00	3,200	95.0	3,040	3,040	3,401
102.00	3,200	95.0	3,040	6,080	3,601
103.00	3,200	95.0	3,040	9,120	3,802
104.00	3,200	95.0	3,040	12,160	4,002
105.00	3,200	95.0	3,040	15,200	4,203
106.00	3,200	95.0	3,040	18,240	4,403
106.75	3,200	95.0	2,280	20,520	4,554

Device	Routing	Invert	Outlet Devices
#1	Primary	100.00'	**24.00" Round Culvert** L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 100.00' / 99.90' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	100.00'	**2.50" Vert. Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	104.00'	**18.00" W x 5.00" H Vert. Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 1	106.25'	**Custom Weir, Cv= 2.62 (C= 3.28)** Head (feet) 0.00 0.50 0.50 Width (feet) 20.00 20.00 0.00

Stage-Discharge for Pond 6P: Vault-1 100-yr

Elevation (feet)	Primary (cfs)
100.00	0.00
100.20	0.05
100.40	0.09
100.60	0.12
100.80	0.14
101.00	0.16
101.20	0.17
101.40	0.19
101.60	0.20
101.80	0.21
102.00	0.23
102.20	0.24
102.40	0.25
102.60	0.26
102.80	0.27
103.00	0.28
103.20	0.29
103.40	0.30
103.60	0.31
103.80	0.32
104.00	0.32
104.20	0.76
104.40	1.56
104.60	2.21
104.80	2.66
105.00	3.03
105.20	3.36
105.40	3.66
105.60	3.93
105.80	4.19
106.00	4.42
106.20	4.65
106.40	8.67
106.60	**18.63**
106.75	**28.38**

Vault Drawdown Calculation - Vault-1

Project Name Melrose and Matagual

Project No 3684 Date 11/16/2022

Vault Drawdown	**26.7**	**hrs**
Underdrain Orifice Diameter:	**2.5**	in
C:	**0.6**	

Surface Depth (ft)	Volume (cf)	$Q_{orifice}$ (cfs)	ΔT (hr)	Total Time (hr)
6.25	19000.00	0.407	0.00	0.00
5.00	15200.00	0.363	2.74	2.74
4.00	12160.00	0.324	2.46	5.20
3.00	9120.00	0.279	2.80	8.00
2.00	6080.00	0.226	3.34	11.35
1.00	3040.00	0.155	4.43	15.78
0.00	0.00	0.000	10.88	26.65

TORY R. WALKER ENGINEERING
RELIABLE SOLUTIONS IN WATER RESOURCES

Manning's *n* Values for Overland Flow[1]

The BMP Design Manuals within the County of San Diego allow for a land surface description other than short prairie grass to be used for hydromodification BMP design only if documentation provided is consistent with Table A.6 of the SWMM 5 User's Manual.

In January 2016, the EPA released the SWMM Reference Manual Volume I – Hydrology (SWMM Hydrology Reference Manual). The SWMM Hydrology Reference Manual complements the SWMM 5 User's Manual by providing an in-depth description of the program's hydrologic components. Table 3-5 of the SWMM Hydrology Reference Manual expounds upon Table A.6 of the SWMM 5 User's Manual by providing Manning's *n* values for additional overland flow surfaces. Therefore, in order to provide SWMM users with a wider range of land surfaces suitable for local application and to provide Copermittees with confidence in the design parameters, we recommend using the values published by Yen and Chow in Table 3-5 of the EPA SWMM Reference Manual Volume I – Hydrology. The values are provided in the table below:

Overland Surface	**Manning value (*n*)**
Smooth asphalt pavement	0.010
Smooth impervious surface	0.011
Tar and sand pavement	0.012
Concrete pavement	0.014
Rough impervious surface	0.015
Smooth bare packed soil	0.017
Moderate bare packed soil	0.025
Rough bare packed soil	0.032
Gravel soil	0.025
Mowed poor grass	0.030
Average grass, closely clipped sod	0.040
Pasture	0.040
Timberland	0.060
Dense grass	0.060
Shrubs and bushes	0.080
Land Use	
Business	0.014
Semibusiness	0.022
Industrial	0.020
Dense residential	0.025
Suburban residential	0.030
Parks and lawns	0.040

[1]Content summarized from *Improving Accuracy in Continuous Simulation Modeling: Guidance for Selecting Pervious Overland Flow Manning's n Values in the San Diego Region* (TRWE, 2016).

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for San Diego County Area, California

January 26, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Map Scale: 1:1,610 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
Survey Area Data: Version 16, Sep 13, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 24, 2020—Feb 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BsD	Bosanko clay, 9 to 15 percent slopes	D	0.4	7.9%
BsE	Bosanko clay, 15 to 30 percent slopes	D	1.4	25.8%
PeC2	Placentia sandy loam, 5 to 9 percent slopes, eroded	D	3.6	66.2%
Totals for Area of Interest			**5.5**	**100.0%**

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

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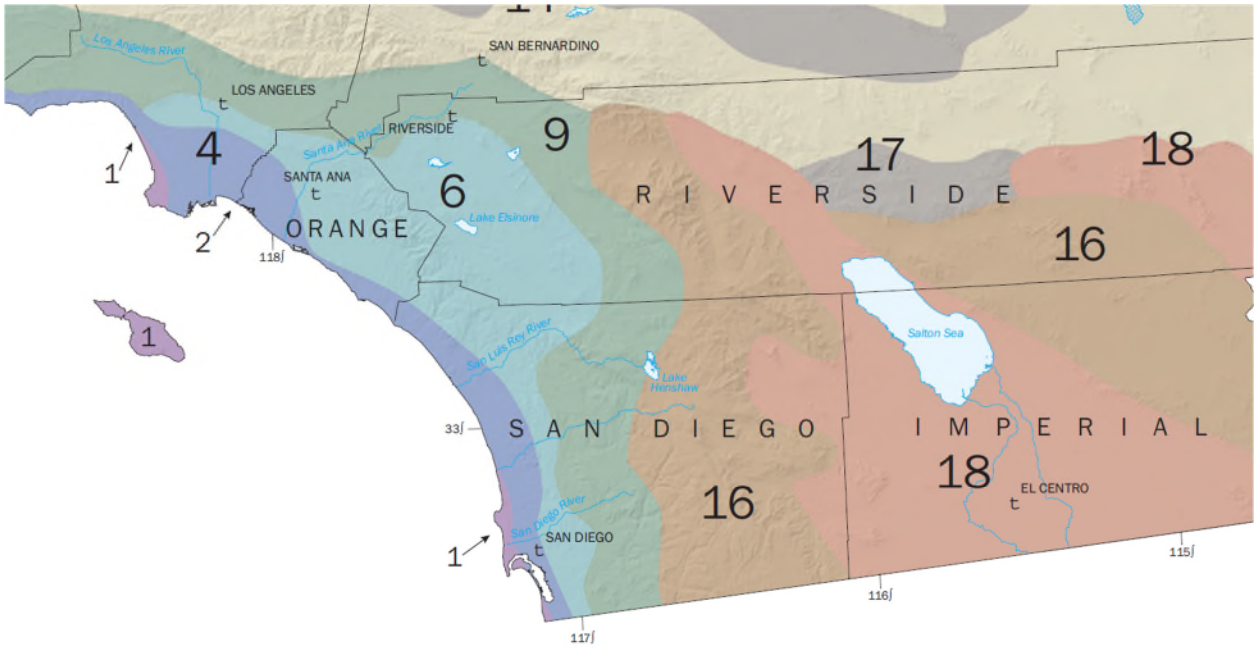


Figure G.1-2: California Irrigation Management Information System "Reference Evapotranspiration Zones"

Table G.1-1: Monthly Average Reference Evapotranspiration by ETo Zone (inches/month and inches/day) for use in SWMM Models for Hydromodification Management Studies in San Diego County CIMIS Zones 1, 4, 6, 9, and 16 (See CIMIS ETo Zone Map)

	January	February	March	April	May	June	July	August	September	October	November	December
Zone	in/month	in/month	in/month	in/month	in/month	in/month	in/month	in/month	in/month	in/month	in/month	in/month
1	0.93	1.4	2.48	3.3	4.03	4.5	4.65	4.03	3.3	2.48	1.2	0.62
4	1.86	2.24	3.41	4.5	5.27	5.7	5.89	5.58	4.5	3.41	2.4	1.86
6	1.86	2.24	3.41	4.8	5.58	6.3	6.51	6.2	4.8	3.72	2.4	1.86
9	2.17	2.8	4.03	5.1	5.89	6.6	7.44	6.82	5.7	4.03	2.7	1.86
16	1.55	2.52	4.03	5.7	7.75	8.7	9.3	8.37	6.3	4.34	2.4	1.55
	January	February	March	April	May	June	July	August	September	October	November	December
Days	31	28	31	30	31	30	31	31	30	31	30	31
Zone	in/day	in/day	in/day	in/day	in/day	in/day	in/day	in/day	in/day	in/day	in/day	in/day
1	0.030	0.050	0.080	0.110	0.130	0.150	0.150	0.130	0.110	0.080	0.040	0.020
4	0.060	0.080	0.110	0.150	0.170	0.190	0.190	0.180	0.150	0.110	0.080	0.060
6	0.060	0.080	0.110	0.160	0.180	0.210	0.210	0.200	0.160	0.120	0.080	0.060
9	0.070	0.100	0.130	0.170	0.190	0.220	0.240	0.220	0.190	0.130	0.090	0.060
16	0.050	0.090	0.130	0.190	0.250	0.290	0.300	0.270	0.210	0.140	0.080	0.050

ATTACHMENT 3 - BMP MAINTENANCE INFORMATION

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

Attachment Sequence	Contents	Checklist
Attachment 3A	Structural BMP Operations and Maintenance Plan	☐ Included See Structural BMP Maintenance Information Checklist on the back of this Attachment cover sheet.
Attachment 3B	Draft Maintenance Agreement	☐ Included ☐ Not Applicable

DESIGN CONSIDERATIONS

Many factors will influence the design of the R-Tank® system. While this list is not intended to be all-inclusive, the following design considerations are worth highlighting:

1. PRE-TREATMENT

Removing pollutants from runoff before they enter an underground detention system is the smart way to design & build a system. Trash Guard Plus® (see page 6) is a great tool for this. Be sure the system you select will remove, heavy sediments, gross pollutants (trash) and biodegradable debris.

2. BACKFILL MATERIALS

Backfill materials should be stone (<1.5" in diameter) or soil (GW, GP SW or SP per the Unified Soil Classification System). Material must be free from lumps, debris and sharp objects that could cut the geotextile. See the R-Tank® narrative specification section 2.03 for additional information.

3. RUNOFF REDUCTION

Most designs incorporate an outlet to drain the system at a controlled rate and/or an overflow to prevent flooding in extreme events. Any infiltration that can be achieved on the site should also be taken advantage of. Consider raising the invert of your outlet or creating a sump to capture and infiltrate the water quality volume whenever possible.

4. WATER TABLE

While installing R-Tank® below the water table is manageable, a stable base must be created to account for the system's ability to drain water out or limit its ability to enter the system. If a liner is used to prevent ground water from entering, measures must be taken to prevent the system from floating.

5. CONSTRUCTION LOADS

Construction loads are often the heaviest loads the system will experience. Care must be taken during backfilling and compaction (see specification section 3.05), and post-installation construction traffic should be routed around the system (Install Guide step 12).

6. LATERAL LOADS

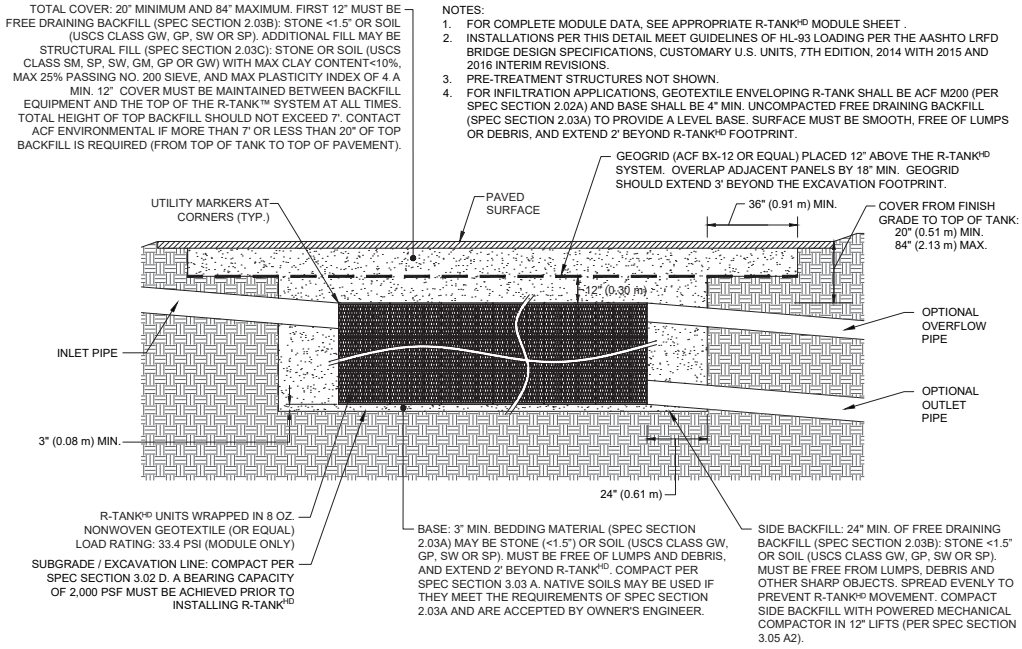
As systems get deeper, the loads acting on the sides of the tank increase. While vertical loads often control the design, lateral loads should also be considered.

7. R-TANK MODULES

Selecting the right module for your application is critical. See page 3 and the specs on the back of this brochure, for details. Our team is also here to help!

8. LOAD MODELING

A safety factor of >1.75 is required when designing an R-Tank System using the AASHTO LRFD Bridge Design Specifications. It is also necessary to run your own loading model with specific site requirements. Example models can be found in our Tech Note on loading capabilities, and minimum cover requirements can be found in the specs on the back of this brochure.



R-TANK MAINTENANCE

Designing an underground stormwater detention system with future maintenance in mind is a simple process that includes three primary objectives: **PREVENT** debris from entering the system by using good pre-treatment systems, **ISOLATE** debris and sediments that manage to enter the system, and **PROTECT** the body of the system by providing backflush mechanisms to ensure longevity.

1. PREVENT

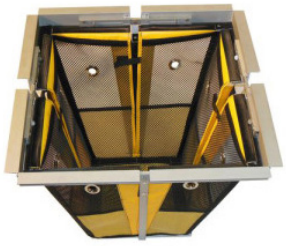
Keeping debris and sediment out of the system by pre-treating runoff is one of the smartest things an engineer can do when designing underground detention systems. It makes no sense to allow trash and sediments to flow unrestricted into an underground system where removal will be expensive. Instead, capture pollutants simply and inexpensively in the inlets, where removal is easy. There are several ways this can be accomplished with minimal cost impacts to your project.

Trash Guard Plus®

Trash Guard Plus®

Trash Guard Plus is a patented stormwater pretreatment device that traps debris, sediment and floatables in the inlet. It helps extend maintenance cycles by using the full volume of the inlet structure for sediment capacity. And it is easy to maintain by accessing pollutants through the manhole lid.

Trash Guard Plus works by both screening debris out of the runoff and by slowing the flow of runoff, causing sediments to fall to the bottom of the inlet. Testing at NC State has shown the Trash Guard to be effective at removing trash, sediment, nutrients, and metals.



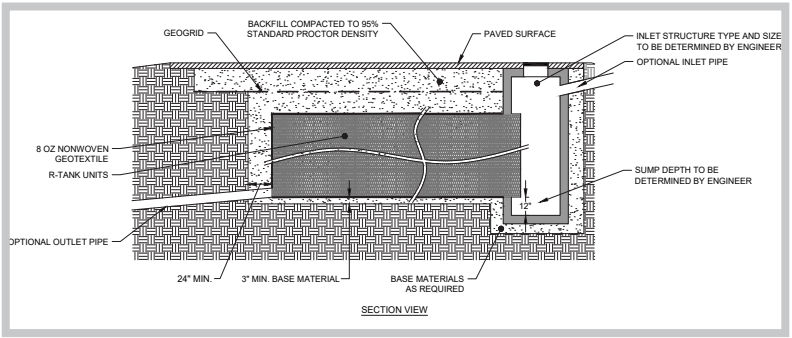
Gratemaster

Gratemaster

To treat a single inlet that serves as a junction for a larger drainage area, consider an insert like the Gratemaster. Ideal for capturing sediment and trash, it makes clean-up a snap by holding all the pollutants right near the surface for easy extraction.

R-Tank Screening

For a more centralized approach, some engineers prefer to create an opening in the inlet structures to allow the R-Tank modules to penetrate the structure to act as a trash screen. This works best with a structure that includes a sump (see drawing below).



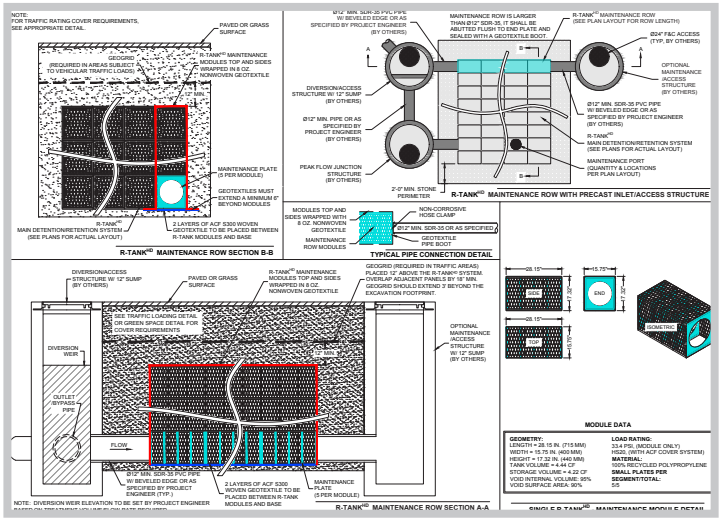
R-TANK MAINTENANCE

2. ISOLATE

Some pollutants may elude the pre-treatment systems. Trap these materials inside the maintenance row (see drawing to right). Consolidating sediments in a single location makes them easy to remove. Maintenance rows are formed by using maintenance modules, which have open internal components that are fully accessible by conventional jet-vac systems. These modules are set in a row (or multiple rows) to your desired length. Longer maintenance rows should include an access structure on both ends. Extremely long rows may require access from the middle of the row, as well.

The maintenance row is always wrapped in geotextile independently from the rest of the system. The geotextile retains trash, sediments, and other solids, preventing contamination of the rest of the system.

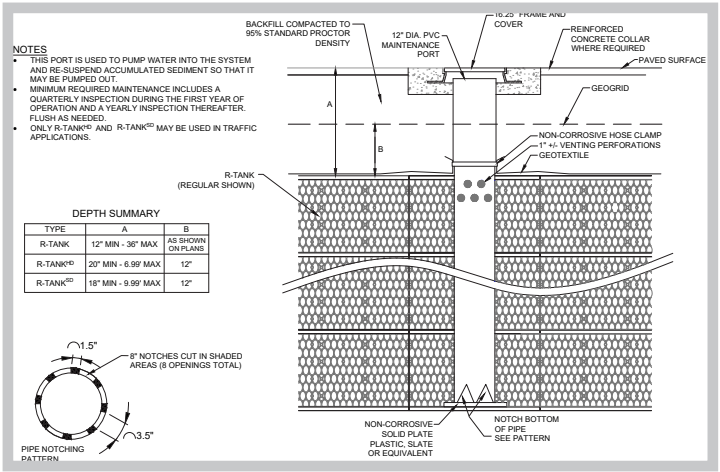
The maintenance row should be sized to treat the first flush (usually 1”) of runoff. Use a bypass structure to divert that flow into the maintenance row, and allow larger flows to continue to a downstream inlet where they can enter the R-Tank outside of the maintenance row.



The maintenance row is only available in LD, HD, and UD modules. For SD and XD modules, consider creating a forebay around the inlet locations to collect sediment. This is done by using a taller module installed at a lower invert. Geotextile baffles between the forebay and the rest of the system can help retain sediments. Concentrate Maintenance Ports (see PROTECT below) in the forebay to ensure access to sediment for removal.

3. PROTECT

Every good system has a fall-back plan. You can ensure a long system life by including maintenance ports throughout the system footprint to remove any pollutants that evade the pretreatment system and maintenance row. Maintenance ports should be specified within 10’ of inlet and outlet connections, and roughly 50’ on center (see maintenance port detail to right).



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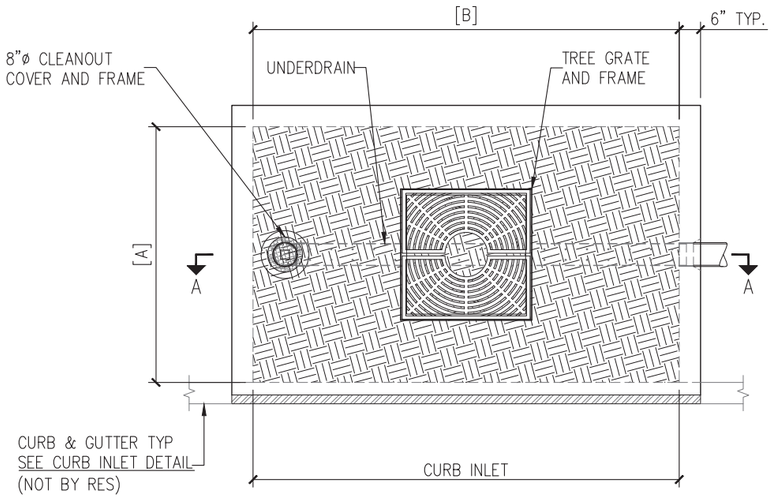
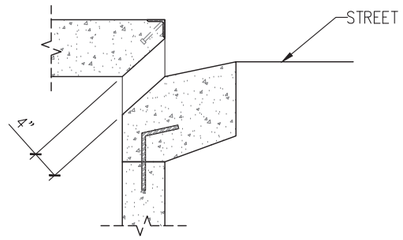
acfenvironmental.com



PLAN VIEW

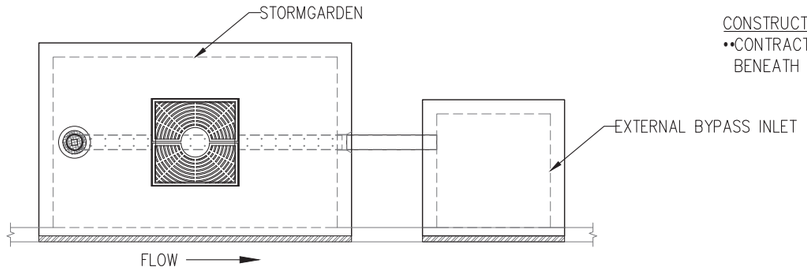


CURB INLET DETAIL

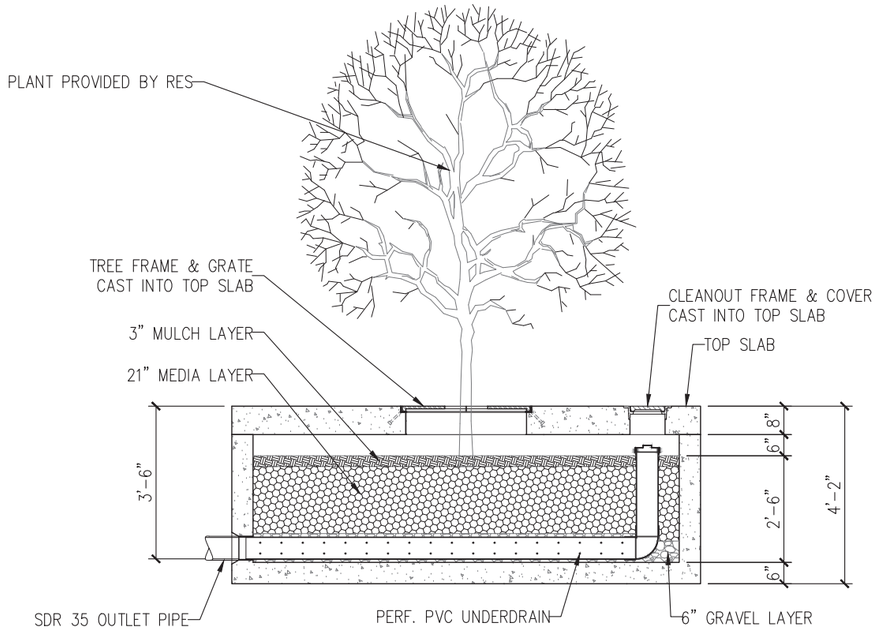
STANDARD HEIGHT CONFIGURATION					
DESIGNATION	VAULT SIZE		TREATMENT FLOW CAPACITY (GPM/CFS)	TREE GRATE QTY & SIZE	OUTLET PIPE DIA (SDR35)
	[A]	[B]			
SGT-0404	4'	4'	23.3 / 0.052	(1) 3' x 3'	4"
SGT-0406	4'	6'	34.8 / 0.078	(1) 3' x 3'	4"
SGT-0408	4'	8'	46.4 / 0.104	(1) 3' x 3'	4"
SGT-0410	4'	10'	58.0 / 0.130	(1) 3' x 3'	4"
SGT-0412	4'	12'	69.6 / 0.156	(2) 3' x 3'	4"
SGT-0606	6'	6'	52.2 / 0.117	(1) 3' x 3'	4"
SGT-0608	6'	8'	69.6 / 0.156	(1) 3' x 3'	4"
SGT-0610	6'	10'	87.0 / 0.195	(1) 3' x 3'	6"
SGT-0612	6'	12'	104.4 / 0.234	(2) 3' x 3'	6"
SGT-0713	7'	13'	132.0 / 0.295	(2) 3' x 3'	6"
SGT-0816	8'	16'	185.6 / 0.425	(2) 3' x 3'	6"

STRUCTURE DESIGN SPECIFICATIONS:
- PRECAST CONCRETE MINIMUM (28-DAY) STRENGTH 5000 PSI.
- REINFORCING BARS CONFORMING TO ASTM A 615 (FY=60 KSI).
- DESIGN LOAD: AASHTO HS-20
- STRUCTURE DESIGN TO MEET ACI 318

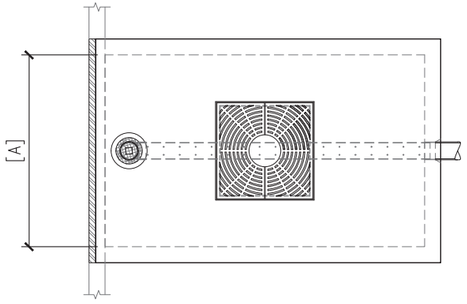
CONSTRUCTION NOTES:
- CONTRACTOR TO GROUT WITH NON-SHRINK GROUT (MINIMUM 3,000 PSI COMPRESSIVE STRENGTH) BENEATH TOP SLAB TO MATCH FINISHED GRADES.



EXTERNAL BYPASS CONFIGURATION



SECTION A-A



OPTIONAL THROAT LOCATIONS

NOTES:
1. TREATMENT FLOW CAPACITY OF 1.45 GPM/SF OF MEDIA SURFACE AREA IS BASED ON WASHINGTON ECOLOGY GULD APPROVAL FOR BASIC AND PHOSPHOROUS
2. OTHER SIZES AVAILABLE UPON REQUEST
3. INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING UPON OUTLET LOCATION
4. ALTERNATE LAYOUT ORIENTATION AVAILABLE

STORMGARDEN TREE VAULT STANDARD CONFIGURATION

State of Washington TAPE GULD Basic Phosphorus

PATENT PENDING

StormGarden HIGH RATE BIOFILTRATION MEDIA By ROTONDO Environmental Solutions LLC

www.Rotondo-ES.com

StormGarden
HIGH RATE BIOFILTER

Maintenance Procedures

Maintaining the StormGarden system is necessary to continue the effective pollutant removal from stormwater runoff prior to discharge into the stormdarin system. Ongoing maintenance will also extend the life of the filter media and the StormGarden system. As the StormGarden filters stormwater runoff, pollutants accumulate within the filter media and floating debris such as silt, trash and leaves accumulate on top of the media underneath the concrete slab. When an excessive amount of silt and trash build up on top of the media, the flow-through rate of the media is reduced, thus decreasing the capacity of the system. Regular replacement of the top mulch layer helps stop the accumulation of such sediment and debris and maintaining the overall performance of the system.

The manufacturer or manufacturer's representative includes a 1-year maintenance plan with each StormGarden purchase. The included maintenance plan consists of a maximum of 2 scheduled visits. If additional visits are required due to excessive sediment and trash loading, they can be performed by the manufacturer/representative for an additional charge. The start of the maintenance plan begins when the system is activated for full operation. Full operation is defined as the unit installed, curb and gutter and transitions in place, and the unit activated by installation contractor, which includes the mulch and plant installed and the temporary throat protection removed.

Activation cannot occur until the site is fully stabilized, which means full landscaping, grass cover, final paving and sweeping is complete. Maintenance visits are scheduled seasonally. The spring visit cleans up after winter loads which include salts and sands, and the fall visit is to remove excessive leaves and debris.

It is the responsibility of the owner to provide adequate irrigation when necessary to the plant of the StormGarden system. Cleanup due to major contamination such as oils, chemicals, toxic spills, etc. will result in additional costs and are not covered under the 1-year maintenance plan provided by manufacturer/representative. Should a major contamination event occur, the owner must block off the outlet pipe to the StormGarden unit (where the cleaned runoff drains to from the StormGarden, such as the bypass inlet) and block off the throat of the StormGarden. All appropriate regulatory parties as well as the manufacturer/representative should be informed immediately.

Each maintenance visit consists of the following tasks:

- Visual inspection of StormGarden unit and surrounding area
- Removal of tree grate and erosion control stones
- Removal of sediment, trash, debris and mulch
- Mulch replacement
- Clean and replace erosion control stones
- Evaluation of plant and pruning or replacement if necessary
- Clean area around StormGarden unit
- Maintenance report

StormGarden Maintenance Checklist

System Component	Problem	Conditions to Check	Condition that Should Exist	Actions
Inlet/Forebay Area	Excessive sediment or trash accumulation.	Accumulated sediments or trash impair free flow of water into StormGarden.	Inlet should be free of obstructions allowing free distributed flow of water into StormGarden.	Sediment and/or trash should be removed.
Mulch Cover	Trash and floatable debris accumulation.	Excessive trash and/or debris accumulation.	Minimal trash or other debrison mulch cover.	Trash and debris should be removed, and mulch cover rakedlevel.
Mulch/Media	"Ponding" of water	"Ponding" could indicate clogging due to excessive fine sediment loading or spill of petroleum oils.	Stormwater should drain freely and evenly through system	Replace mulch and/or media as necessary.
Underdrain	Not draining/ponding of water above	"Ponding" could indicate the drain rock or perforated piping is clogged.	Stormwater should drain freely and evenly through system	Flush the underdrain piping using the cleanout provided. Worse case scenario is you replace all internal components if terminally failed.
Vegetation	Plants not growing or in poor condition.	Soil/mulch too wet, evidence ofspill. Incorrect plant selection. Pest infestation. Vandalism to plants.	Plants should be healthy and pest free.	Replant with plants suitable to for system. Contact qualified landscape professional or arborist.
Vegetation	Plant growth excessive.	Plants should be appropriate to the region/climate of the site.	Plants should not be overgrown or be excessive for the system.	Trim/prune plants in accordance with typical landscaping and safety needs.
Structure	Structure has visible cracks.	Cracks wider than 1/2 inch		Vault should be repaired.

Maintenance frequency will depend on site specific characteristics and will generally need to occur 1-2 times per year

StormGarden Inspection & Maintenance Log

StormGarden System Size/Model:_____Location: _____

Date	Mulch & Debris Removed	Depth of Mulch Added	Mulch Brand	Height of Vegetation Above Grate	Vegetation Species	Issues with System	Comments

StormGarden Activation Checklist

Project Name:_____ Company:_____

Site Contact Name:_____ Site Contact Phone/Email:_____

Site Owner/End User Name:_____ Site Owner/End User Phone/Email:_____

Site Designation	System Size	Final Pavement /Top Coat Complete	Landscaping Complete/ Soil Stabilized	Construction materials / Piles / Debris Removed	Throat Opening Measures According to Plan	Plant Species Requested
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	
		☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	

ATTACHMENT 4 - REQUIREMENTS FOR CONSTRUCTION PLANS

Section 8.2.2 of the *BMP Design Manual* identifies minimum requirements for storm drain construction plan sheets. Use this checklist to ensure project construction plans submitted for review include necessary information for storm drain improvements. Construction plans must include the following:

☒ All items identified in Section 8.2.2 of the *BMP Design Manual*.

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

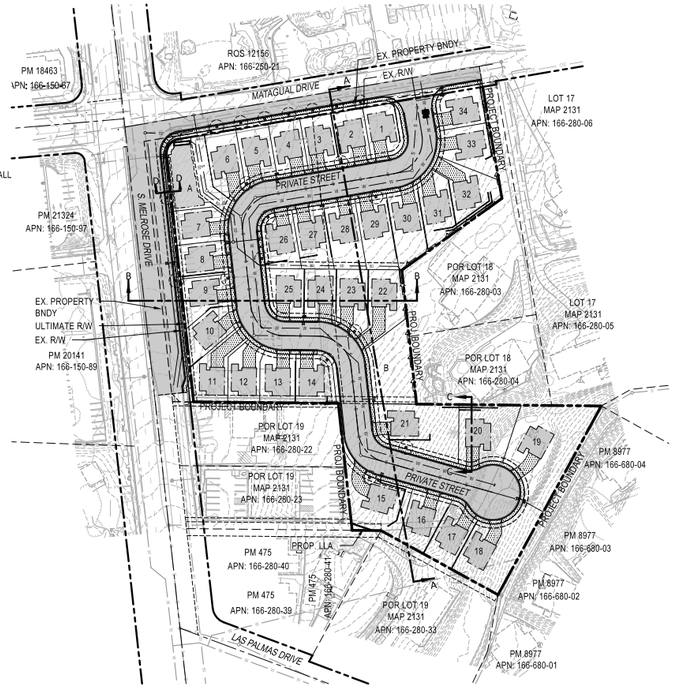
PROJECT FILE NUMBER: **P22-0218**

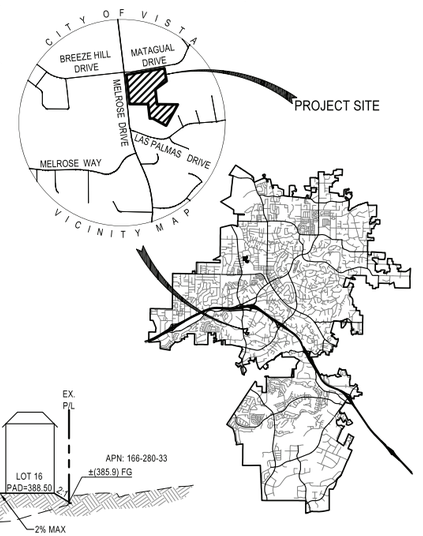
LEGEND

ITEM	SYMBOL
PROJECT BOUNDARY	
LOT LINE	
EASEMENT LINE	
BUILDING SETBACK LINE	
CENTERLINE	
EXISTING CITY BOUNDARY	
EXISTING OVERHEAD ELECTRICAL	OE
EXISTING WATERLINE	W
EXISTING SEWER MAIN	S
EXISTING GAS LINE	G
EXISTING STORM DRAIN	
EXISTING FIRE HYDRANT	
EXISTING FENCE	X
DAYLIGHT LINE	
CUT/FILL LINE	
FINISHED GROUND CONTOUR	440
EXISTING GROUND CONTOUR	440
PROPOSED CUT/FILL SLOPE	2:1
TOP/TOE GRADING LINE	
RETAINING WALL (PER SEPARATE PERMIT)	
EXISTING SPOT ELEV.	(400.50) FG
FUTURE SPOT ELEVATIONS	400.50 FG
PROPOSED 6" CURB & GUTTER	
PROPOSED 6" ROLLED CURB & GUTTER	
PROPOSED STREET LIGHT	
PROPOSED STORM DRAIN	SD
PROPOSED CURB INLET	
PROPOSED STORM DRAIN CLEANOUT	
PROPOSED MODULAR WETLAND SYSTEM	
PROPOSED RTANK	
PROPOSED CURB OUTLET	
PROPOSED PUBLIC SEWER MAIN	S
PROPOSED PUBLIC SEWER MANHOLE	
PROPOSED PUBLIC WATER MAIN	W
PROPOSED BROW DITCH	

ABBREVIATIONS

AB	AGGREGATE BASE	IE	INVERT ELEVATION
AC	ASPHALT CONCRETE	MH	MANHOLE
ADA	AMERICAN WITH DISABILITIES ACT	MIN	MINIMUM
BFD	BACKFLOW DEVICE	PA	PLANTER AREA
BLDG	BUILDING	P/L	PROPERTY LINE
BS	BOTTOM OF STAIRS	POC	POINT OF CONNECTION
BW	BOTTOM OF WALL	POT	PATH OF TRAVEL
CB	CATCH BASIN	PP	POWER POLE
CF	CURB FACE	PROP	PROPOSED
CO	CLEANOUT	R/W	RIGHT-OF-WAY
CONC	CONCRETE	SCO	SEWER CLEANOUT
DEMO	DEMOLITION	SD	STORM DRAIN
DS	DOWNSPOUT	SDCO	STORM DRAIN CLEANOUT
ELEC	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
EX	EXISTING	SL	STREET LIGHT
FF	FINISH FLOOR	SMH	SEWER MANHOLE
FG	FINISHED GRADE	TC	TOP OF CURB
FL	FLOW LINE	TFW	TOP OF FREE STANDING WALL
FM	FORCE MAIN	TG	TOP OF GRADE
FS	FINISHED SURFACE	TRW	TOP OF RETAINING WALL
GB	GRADE BREAK	TW	TOP OF WALL
GFF	GARAGE FINISH FLOOR	TYP	TYPICAL
HP	HIGH POINT	WAR	WATER AIR RELEASE
HT	HEIGHT	WM	WATER METER
		WV	WATER VALVE





OWNER/SUBDIVIDER

WE HEREBY CERTIFY THAT WE ARE THE RECORD OWNERS OF THE PROPERTY SHOWN ON THIS TENTATIVE SUBDIVISION MAP AND THAT SAID MAP SHOWS OUR ENTIRE CONTIGUOUS OWNERSHIP (EXCLUDING SUBDIVISION LOTS). WE UNDERSTAND THAT PROPERTY IS CONSIDERED CONTIGUOUS EVEN IF IT IS SEPARATED BY ROADS, STREETS, UTILITY EASEMENTS OR RAILROADS RIGHTS-OF-WAY.

OWNER/SUBDIVIDER

TTLC VISTA MELROSE, LLC
CONTACT: GORDON JONES
4350 VON KARMAN AVENUE
NEWPORT BEACH, CA 92660

GORDON JONES

ENGINEER OF WORK

WILLIAM J. SUITER | RCE 68964

REGISTERED PROFESSIONAL ENGINEER — WILLIAM J. SUITER — No. RCE 68964 — EXP. 12-31-23 — Civil — STATE OF CALIFORNIA

LEGAL DESCRIPTION

PARCEL 1: (APN: 166-280-60-00 & 166-280-61-00)
PARCELS A AND B, OF PARCEL MAP NO. 18360, IN THE CITY OF VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, OCTOBER 22, 1999 AS FILE NO. 1999-710328.

PARCEL 2: (APN: 166-280-18-00)
LOT 19 OF ORLEAVO HEIGHTS UNIT NO. 15, IN THE CITY OF VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 2131, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1928.

PROJECT DESCRIPTION

GENERAL PLAN AMENDMENT, ZONE CHANGE, TENTATIVE SUBDIVISION MAP AND SITE DEVELOPMENT PLAN TO DEVELOP A 34-UNIT SINGLE-FAMILY RESIDENTIAL SMALL LOT SUBDIVISION

AERIAL TOPOGRAPHY

AERIAL TOPOGRAPHY SUPPLIED BY: PHOTO GEODETIC CORP.
2806 ALPHINE BLVD., SUITE C
ALPINE, CA 91901
619-637-1366
FLOWN ON 7-7-2021

ASSESSOR'S PARCEL NUMBER

166-280-18, 166-280-60, 166-280-61
TAX RATE AREA: 012236

GENERAL NOTES:

1. APN: 166-280-18, 166-280-60, 166-280-61
2. GROSS ACREAGE: 5.55 AC
3. NET ACREAGE: 3.91 AC
4. NUMBER OF LOTS: 37 (34 RESIDENTIAL, 2 HOA/PARKS, 1 PRIVATE STREET)
5. NUMBER OF DWELLING UNITS: 34
6. EXISTING ZONING: O-P (OFFICE PROFESSIONAL), R-1 (SINGLE FAMILY RESIDENTIAL)
   PROPOSED ZONING: R-1-B RESIDENTIAL
7. EXISTING GENERAL PLAN: CO (COMMERCIAL OFFICE), MLD - MEDIUM LOW DENSITY 5 DU/AC)
   PROPOSED GENERAL PLAN: MD - MEDIUM DENSITY RESIDENTIAL (10 DU/AC)
8. FINISH GRADES SHOWN HEREON ARE APPROXIMATE AND ARE SUBJECT TO CHANGE IN FINAL DESIGN.
9. PROPOSED DENSITY: 6.1 DU/AC (FROM NET ACREAGE)
10. CUT AND FILL SLOPES NO STEEPER THAN 2:1
11. PUBLIC SERVICES AND DISTRICTS:
    - GAS & ELECTRIC: SAN DIEGO GAS AND ELECTRIC
    - TELEPHONE: AT&T
    - WATER: VISTA IRRIGATION DISTRICT
    - SEWER: CITY OF VISTA
    - FIRE DISTRICT: CITY OF VISTA
    - SCHOOL DISTRICT: VISTA UNIFIED SCHOOL DISTRICT
12. NO SPECIAL DISTRICTS ARE PROPOSED
13. PROPOSED SETBACK: FRONT YARD = MIN. 20' TO GARAGE, MIN. 10' TO RESIDENTIAL; SIDE YARD = MINIMUM 5'; REAR YARD= MINIMUM 10'
14. SEE STORM WATER MITIGATION PLAN PREPARED BY: PASCO LARET SUITER & ASSOCIATES DATED: MAY 2022
15. SEE PRELIMINARY DRAINAGE STUDY PREPARED BY: PASCO LARET SUITER & ASSOCIATES DATED: MAY 2022
16. SEE GEOTECHNICAL AND INFILTRATION EVALUATION PREPARED BY: GEOTEK, INC DATED: AUGUST 3, 2021 (PROJECT NO. 3706-SD)
17. PROPOSED STREET LIGHTS WILL BE PER CITY STANDARDS

EARTHWORK QUANTITIES

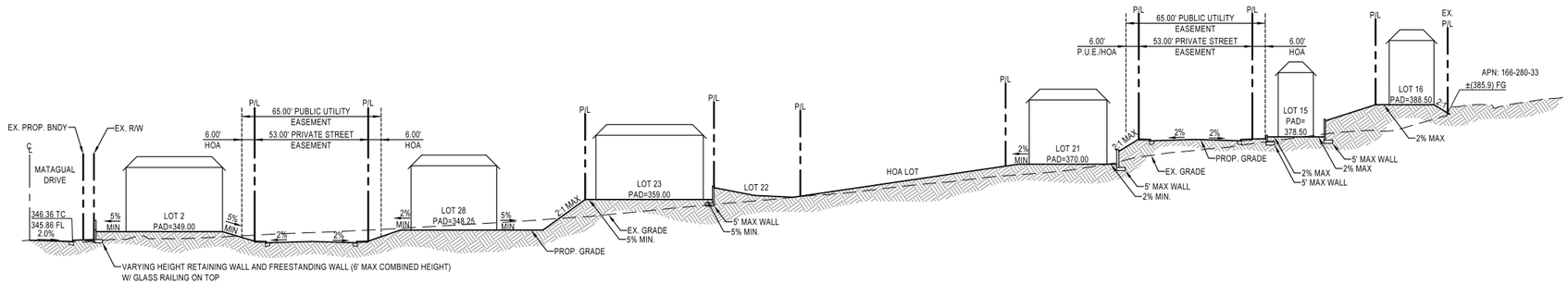
CUT:	16,000 CY
FILL:	10,000 CY
NET (EXPORT):	6,000 CY

THE ABOVE RAW EARTHWORK QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR SHALL NOT RELY UPON QUANTITIES FOR BID PURPOSES. CONTRACTOR TO VERIFY EARTHWORK QUANTITIES TO THEIR SATISFACTION PRIOR TO START OF WORK.

NOTE: QUANTITIES DO NOT INCLUDE ANY EARTHWORK FOR REMEDIAL PURPOSES. EARTHWORK ESTIMATES ARE BASED ON IN PLACE VOLUMES AN DO NOT ACCOUNT FOR ANY SHRINKAGE OR SWELL OF THE SOIL THAT MAY OCCUR DURING GRADING.

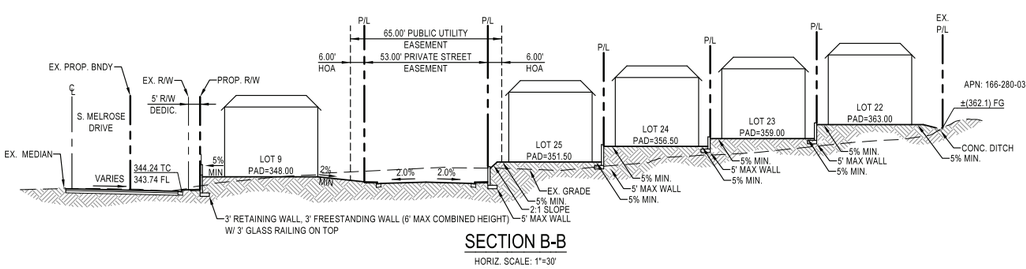
SHEET INDEX

SHEET NO.	DESCRIPTION
16	CIVIL TITLE SHEET
17	REZONING PLAN
18	SLOPE ANALYSIS
19	DETAIL & SECTIONS
20	PRELIMINARY GRADING PLAN
21	PRELIMINARY RETAINING WALL PLAN
22	EXISTING MAP
23	PROPOSED MAP
24	BMP SITE PLAN



SECTION A-A

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=20'



SECTION B-B

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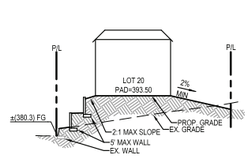
VERT. SCALE: 1"=20'



SECTION C-C

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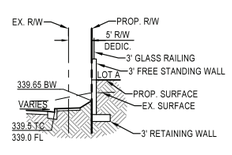
VERT. SCALE: 1"=20'



SECTION D-D

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=20'

SUBMITTAL NUMBER	DATE	CHANGES
1	MAY 2022	INITIAL SUBMITTAL
--	--	--
--	--	--
--	--	--
--	--	--

PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

SIGNATURES CONSTITUTE THAT ALL PLANS, SPECIFICATIONS, GUARANTEES, AND OTHER REQUIREMENTS NECESSARY FOR ISSUANCE OF A BUILDING PERMIT CONFORMING TO THIS SITE DEVELOPMENT PLAN HAVE BEEN COMPLETED AND APPROVED BY THE APPROPRIATE DEPARTMENT.

PLANNING DEPARTMENT	DATE
ENGINEERING DEPARTMENT	DATE
FIRE DEPARTMENT	DATE
PUBLIC WORKS DEPARTMENT	DATE

CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370
ADDRESS: 4350 VON KARMAN AVENUE, SUITE 200, NEWPORT BEACH, CA 92660
ARCHITECT, ENGINEER OR DESIGNER: PASCO LARET SUITER & ASSOCIATES, INC. PHONE: 949-661-6695
ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675
TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN
EXIST. ZONE: O-P, R-1 | PROP. ZONE: R-1-B | APN(S): 166-280-18, 166-280-60, 166-280-61

SITE DATA AREA (SQ. FT.)			COVERAGE %
LOT:	227,752		100%
BLDG:	47,940		21%
PARKING/PVMT:	72,436		32%
LANDSCAPE:	107,376		47%

PARKING			
	ORD. REQ.	136	
GARAGE	68	LOADING	-
GUEST	68	HANDICAP	-
OPEN	35	TOTAL	171

REC. VEH. STORAGE SPACES: N/A

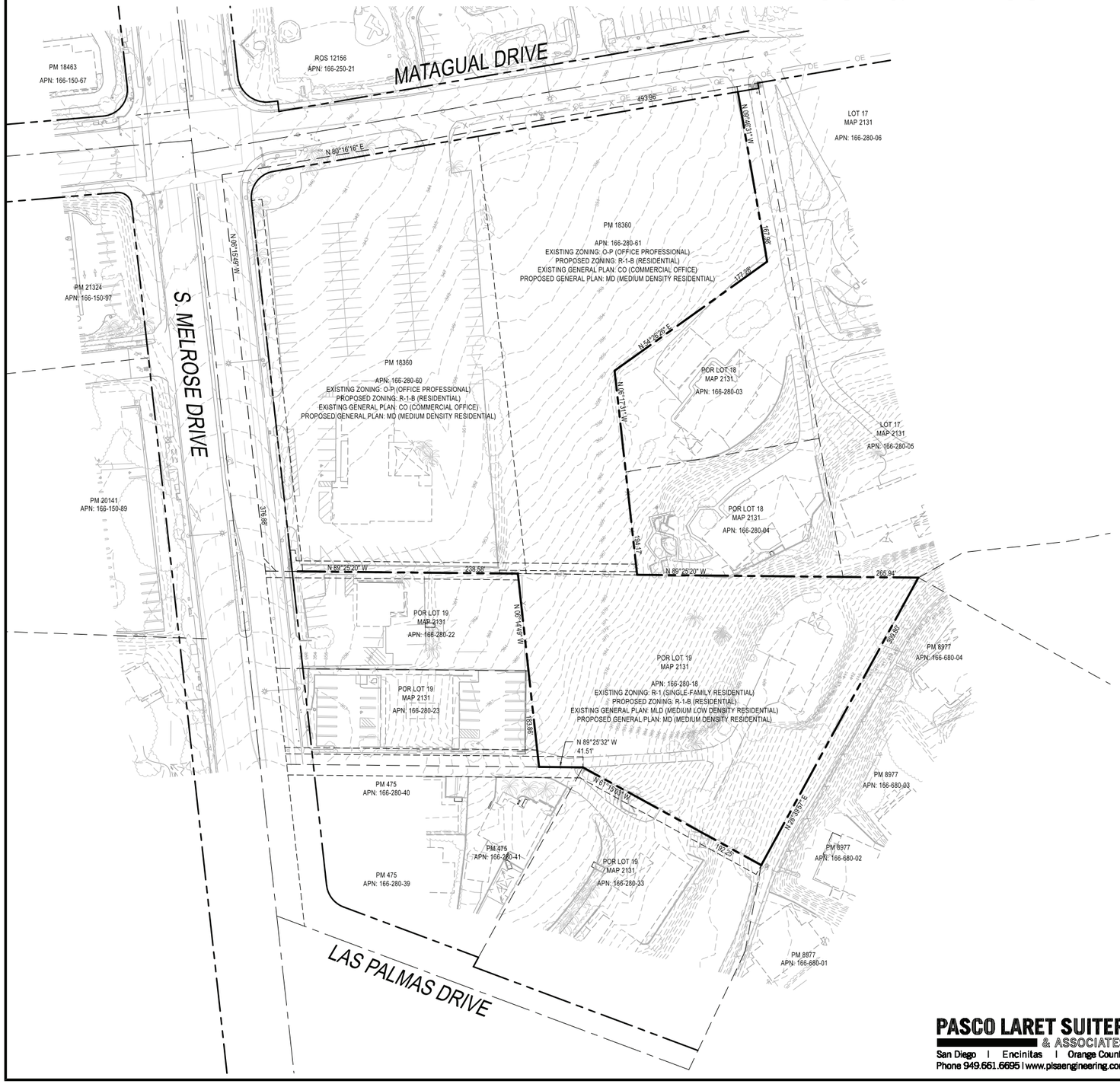
DWELLING UNITS		COMMON OPEN SPACE	
2 BDRM	-	PROVIDED	REQUIRED
3 BDRM	-	13,082 SF	6,800 SF
4 BDRM	17	PRIVATE OPEN SPACE	
5 BDRM	17	PROVIDED	REQUIRED
TOTAL UNITS	34	18,700 SF	6,800 SF

DRIVEWAY (SIZE & SLOPE)

SETBACKS			
1 WAY	12' MIN.	FRONT	10'/20' REAR 10'
2 WAY	24' MIN.	L. SIDE	5' SPECIAL N/A
SLOPE	VARIES	R. SIDE	5' ACCES. BLDG N/A

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: P22-0218



LEGEND

ITEM	SYMBOL
PROJECT BOUNDARY	

ASSESSOR'S PARCEL NUMBER

166-280-18, 166-280-60, 166-280-61
TAX RATE AREA: 012236

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER
WILLIAM J. SUITER
No. RCE 68964
EXP. 12-31-23
Civil
STATE OF CALIFORNIA

DRAFT

WILLIAM J. SUITER RCE 68964

LEGAL DESCRIPTION

PARCEL 1: (APN: 166-280-60-00 & 166-280-61-00)
PARCELS A AND B, OF PARCEL MAP NO. 18360, IN THE CITY OF VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, OCTOBER 22, 1999 AS FILE NO. 1999-710328.

PARCEL 2: (APN: 166-280-18-00)
LOT 19 OF ORLEAVO HEIGHTS UNIT NO. 15, IN THE CITY OF VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 2131, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1928.

PROJECT DESCRIPTION

GENERAL PLAN AMENDMENT, ZONE CHANGE, TENTATIVE SUBDIVISION MAP AND SITE DEVELOPMENT PLAN TO DEVELOP A 34-UNIT SINGLE FAMILY RESIDENTIAL SMALL LOT SUBDIVISION.

AERIAL TOPOGRAPHY

AERIAL TOPOGRAPHY SUPPLIED BY: PHOTO GEODETIC CORP.
2806 ALPHINE BLVD., SUITE C
ALPINE, CA 91901
619-637-1366
FLOWN ON 7-7-2021

GENERAL NOTES:

1. APN: 166-280-18, 166-280-60, 166-280-61
2. TOTAL ACREAGE: 5.55 AC.
3. EXISTING ZONING: O-P (OFFICE PROFESSIONAL), R-1 (SINGLE FAMILY RESIDENTIAL)
   PROPOSED ZONING: R-1-B RESIDENTIAL
4. EXISTING GENERAL PLAN: CO (COMMERCIAL OFFICE), MLD - MEDIUM LOW DENSITY 5 DU/AC)
   PROPOSED GENERAL PLAN: MD - MEDIUM DENSITY RESIDENTIAL (10 DU/AC)

0 50 100 150
SCALE: 1" = 150'

SIGNATURES CONSTITUTE THAT ALL PLANS, SPECIFICATIONS, GUARANTEES, AND OTHER REQUIREMENTS NECESSARY FOR ISSUANCE OF A BUILDING PERMIT CONFORMING TO THIS SITE DEVELOPMENT PLAN HAVE BEEN COMPLETED AND APPROVED BY THE APPROPRIATE DEPARTMENT.

PLANNING DEPARTMENT	DATE
ENGINEERING DEPARTMENT	DATE
FIRE DEPARTMENT	DATE
PUBLIC WORKS DEPARTMENT	DATE

SUBMITTAL NUMBER	DATE	CHANGES
1	MAY 2022	INITIAL SUBMITTAL
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PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370
ADDRESS: 4350 VON KARMAN AVENUE, SUITE 200, NEWPORT BEACH, CA 92660
ARCHITECT, ENGINEER OR DESIGNER: PASCO LARET SUITER & ASSOCIATES, INC. PHONE: 949-661-6695
ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675
TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN
EXIST. ZONE: O-P, R-1 PROP. ZONE: R-1-B APN(S): 166-280-18, 166-280-60, 166-280-61

SITE DATA AREA (SQ. FT.)		COVERAGE %
LOT:	227,752	100%
BLDG:	47,940	21%
PARKING/PVMT:	72,436	32%
LANDSCAPE:	107,376	47%

DWELLING UNITS		COMMON OPEN SPACE	
		PROVIDED	REQUIRED
2 BDRM	-		
3 BDRM	-	13,082 SF	6,800 SF
4 BDRM	17	PRIVATE OPEN SPACE	
5 BDRM	17	PROVIDED	REQUIRED
TOTAL UNITS	34	18,700 SF	6,800 SF

PARKING				DRIVEWAY (SIZE & SLOPE)	SETBACKS	
GARAGE	68	ORD. REQ.	136			
GUEST	68	LOADING	-	REC. VEH. STORAGE SPACES	1 WAY 12' MIN.	FRONT 10'/20' REAR 10'
OPEN	35	HANDICAP	-		2 WAY 24' MIN.	L. SIDE 5' SPECIAL N/A
		TOTAL	171	N/A	SLOPE VARIES	R. SIDE 5' ACCES. BLDG N/A

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: P22-0218

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER
WILLIAM J. SUITER
No. RCE 68964
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

DRAFT

WILLIAM J. SUITER RCE 68964

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2806 ALPHINE BLVD., SUITE C
ALPINE, CA 91901
619-637-1366
FLOWN ON 7-7-2021

SLOPE ANALYIS TABLE

SLOPE RANGE (MIN-MAX)	AREA (AC)	PERCENTAGE OF SITE	COLOR LEGEND
0% - 5%	1.82	34.4%	
5% - 10%	1.84	34.7%	
10% - 15%	0.43	8.2%	
15% - 25%	0.92	17.0%	
25% +	0.34	5.7%	

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CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

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EXIST. ZONE: O-P, R-1 PROP. ZONE: R-1-B APN(S): 166-280-18, 166-280-60, 166-280-61

SITE DATA AREA (SQ. FT.)		COVERAGE %
LOT:	227,752	100%
BLDG:	47,940	21%
PARKING/PVMT:	72,436	32%
LANDSCAPE:	107,376	47%

DWELLING	UNITS	COMMON OPEN SPACE	
		PROVIDED	REQUIRED
2 BDRM	-		
3 BDRM	-	13,082 SF	6,800 SF
4 BDRM	17	PRIVATE OPEN SPACE	
5 BDRM	17	PROVIDED	REQUIRED
TOTAL UNITS	34	18,700 SF	6,800 SF

PARKING		ORD. REQ.	136
GARAGE	68	LOADING	-
GUEST	68	HANDICAP	-
OPEN	35	TOTAL	171

DRIVEWAY (SIZE & SLOPE)

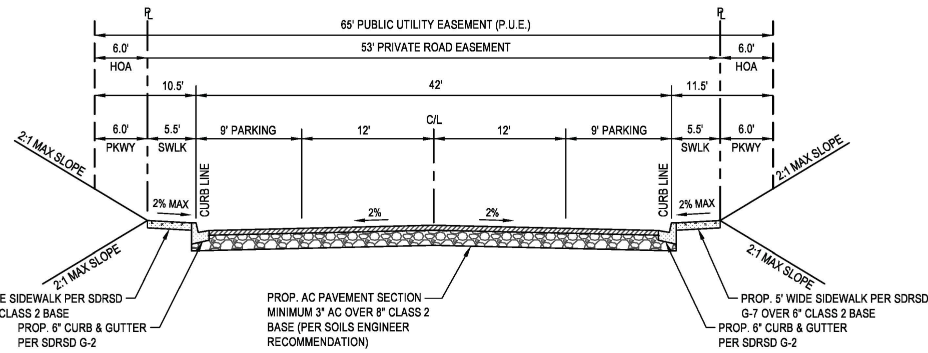
SETBACKS

REC. VEH. STORAGE SPACES	N/A	1 WAY	12' MIN.
		2 WAY	24' MIN.
		SLOPE	VARIES
FRONT	10'/20'	REAR	10'
L. SIDE	5'	SPECIAL	N/A
R. SIDE	5'	ACCES. BLDG	N/A

SAVE DATE: 11/21/22 - PLOT DATE: - - FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\DRAWING\DISCRETIONARY PLANS\TENTATIVE MAP\3684-TM-TBLOCK.dwg

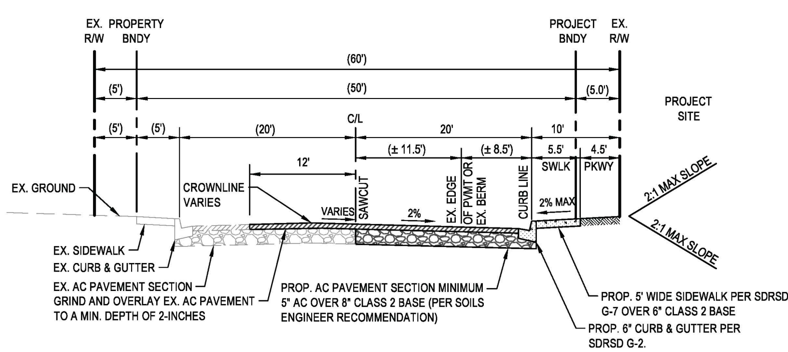
TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: **P22-0218**



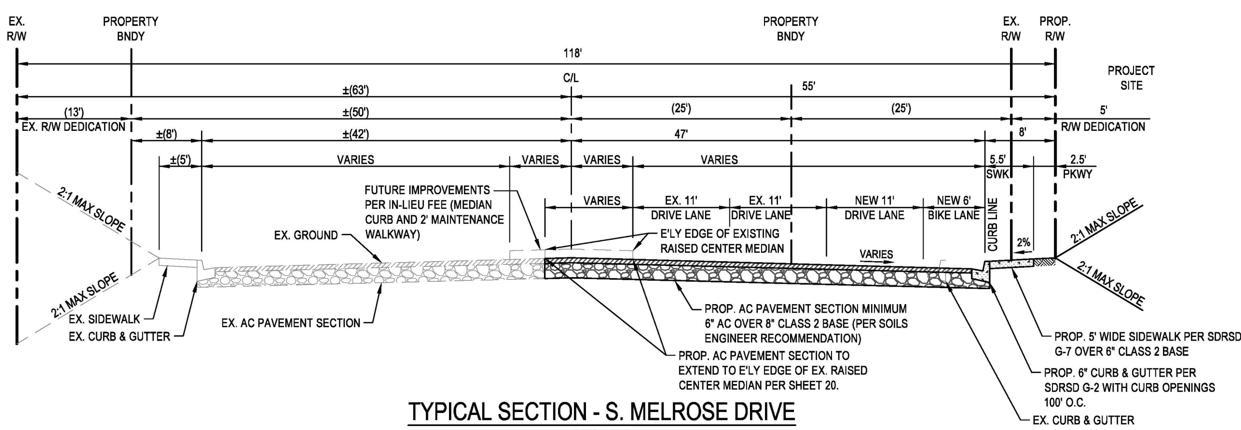
TYPICAL SECTION - PRIVATE STREET A

SCALE: NTS



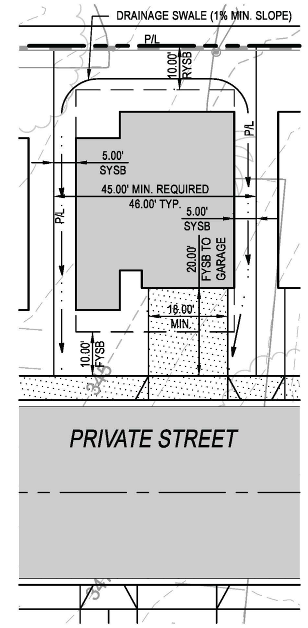
TYPICAL SECTION - MATAGUAL DRIVE

SCALE: NTS



TYPICAL SECTION - S. MELROSE DRIVE

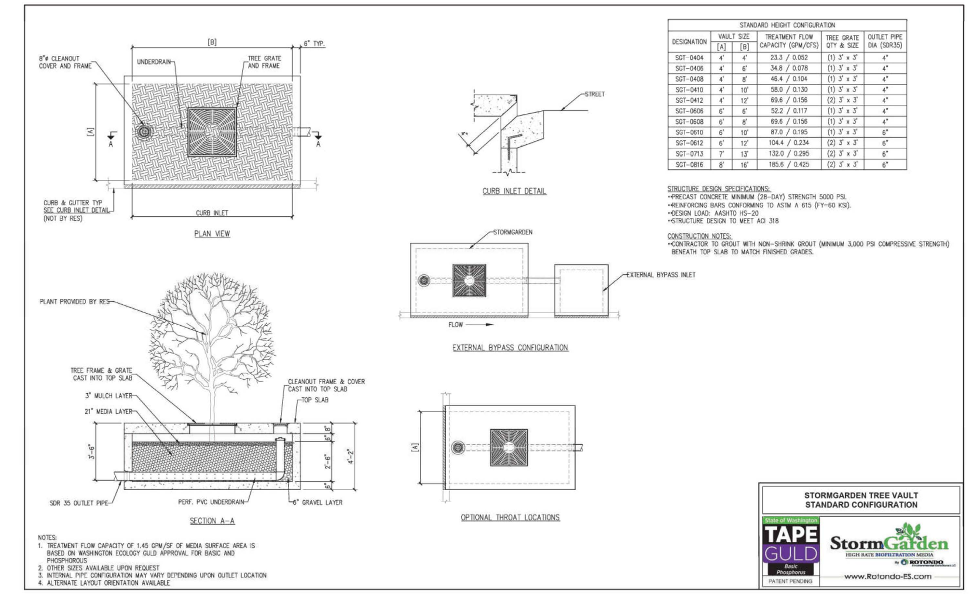
SCALE: NTS



TYPICAL LOT & UNIT

SCALE: NTS

NOTE: MINIMUM DRIVEWAY DIMENSIONS DIRECTLY IN FRONT OF GARAGE MUST BE 18'W X 20'L



STANDARD HEIGHT CONFIGURATION

DESIGNATION	VAULT SIZE [A]	VAULT SIZE [B]	TREATMENT FLOW CAPACITY (GPM/CFS)	TREE GRATE QTY & SIZE	OUTLET PIPE DIA (SDR35)
SGT-0404	4'	4'	23.3 / 0.052	(1) 3' x 3'	4"
SGT-0406	4'	6'	34.8 / 0.078	(1) 3' x 3'	4"
SGT-0408	4'	8'	46.4 / 0.104	(1) 3' x 3'	4"
SGT-0410	4'	10'	58.0 / 0.130	(1) 3' x 3'	4"
SGT-0412	4'	12'	69.6 / 0.156	(2) 3' x 3'	4"
SGT-0606	6'	6'	52.2 / 0.117	(1) 3' x 3'	4"
SGT-0608	6'	8'	69.6 / 0.156	(1) 3' x 3'	4"
SGT-0610	6'	10'	87.0 / 0.195	(1) 3' x 3'	6"
SGT-0612	6'	12'	104.4 / 0.234	(2) 3' x 3'	6"
SGT-0713	7'	13'	132.0 / 0.295	(2) 3' x 3'	6"
SGT-0816	8'	16'	185.6 / 0.425	(2) 3' x 3'	6"

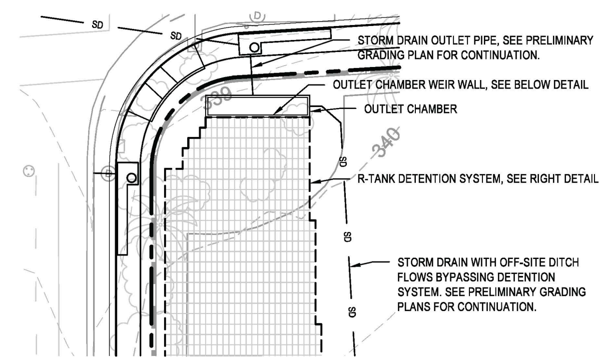
STRUCTURE DESIGN SPECIFICATIONS:
- PRECAST CONCRETE MINIMUM (28-DAY) STRENGTH 5000 PSI.
- REINFORCING BARS CONFORMING TO ASTM A 615 (FY=60 KSI).
- DESIGN LOAD: AASHTO HS-20
- STRUCTURE DESIGN TO MEET ACI 318

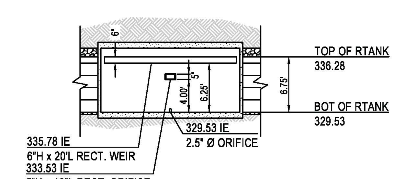
CONSTRUCTION NOTES:
- CONTRACTOR TO GROUT WITH NON-SHRINK GROUT (MINIMUM 3,000 PSI COMPRESSIVE STRENGTH) BENEATH TOP SLAB TO MATCH FINISHED GRADES.

NOTES:
1. TREATMENT FLOW CAPACITY OF 1.45 GPM/SF OF MEDIA SURFACE AREA IS BASED ON WASHINGTON ECOLOGY GULD APPROVAL FOR BASIC AND PHOSPHOROUS
2. OTHER SIZES AVAILABLE UPON REQUEST
3. INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING UPON OUTLET LOCATION
4. ALTERNATE LAYOUT ORIENTATION AVAILABLE

TYPICAL STORMGARDEN DETAIL

SCALE: NTS



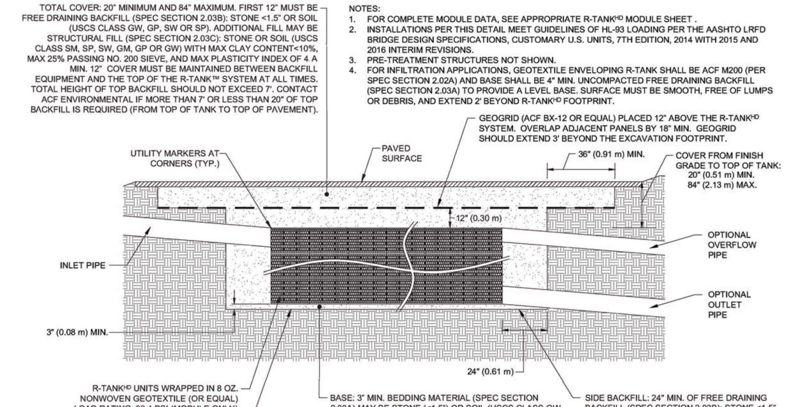


TYPICAL R-TANK OUTLET CHAMBER DETAIL

SCALE: 1"=20'

TOTAL COVER: 20" MINIMUM AND 84" MAXIMUM. FIRST 12" MUST BE FREE DRAINING BACKFILL (SPEC SECTION 2.03B): STONE <1.5" OR SOIL (USCS CLASS GW, GP, SW OR SP). ADDITIONAL FILL MAY BE STRUCTURAL FILL (SPEC SECTION 2.03C): STONE OR SOIL (USCS CLASS SM, SP, SW, GM, GP OR GW) WITH MAX CLAY CONTENT<10%, MAX 25% PASSING NO. 200 SIEVE, AND MAX PLASTICITY INDEX OF 4. A MIN. 12" COVER MUST BE MAINTAINED BETWEEN BACKFILL EQUIPMENT AND THE TOP OF THE R-TANK™ SYSTEM AT ALL TIMES. TOTAL HEIGHT OF TOP BACKFILL SHOULD NOT EXCEED 7'. CONTACT ACF ENVIRONMENTAL IF MORE THAN 7' OR LESS THAN 20" OF TOP BACKFILL IS REQUIRED (FROM TOP OF TANK TO TOP OF PAVEMENT).

NOTES:
1. FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK[HD] MODULE SHEET .
2. INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF HL-93 LOADING PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CUSTOMARY U.S. UNITS, 7TH EDITION, 2014 WITH 2015 AND 2016 INTERIM REVISIONS.
3. PRE-TREATMENT STRUCTURES NOT SHOWN.
4. FOR INFILTRATION APPLICATIONS, GEOTEXTILE ENVELOPING R-TANK SHALL BE ACF M200 (PER SPEC SECTION 2.02A) AND BASE SHALL BE 4" MIN. UNCOMPACTED FREE DRAINING BACKFILL (SPEC SECTION 2.03A) TO PROVIDE A LEVEL BASE. SURFACE MUST BE SMOOTH, FREE OF LUMPS OR DEBRIS, AND EXTEND 2' BEYOND R-TANK[HD] FOOTPRINT.



R-TANK[HD] UNITS WRAPPED IN 8 OZ. NONWOVEN GEOTEXTILE (OR EQUAL) LOAD RATING: 33.4 PSI (MODULE ONLY)

SUBGRADE / EXCAVATION LINE: COMPACT PER SPEC SECTION 3.02 D. A BEARING CAPACITY OF 2,000 PSF MUST BE ACHIEVED PRIOR TO INSTALLING R-TANK[HD]

BASE: 3" MIN. BEDDING MATERIAL (SPEC SECTION 2.03A) MAY BE STONE (<1.5") OR SOIL (USCS CLASS GW, GP, SW OR SP). MUST BE FREE OF LUMPS AND DEBRIS, AND EXTEND 2' BEYOND R-TANK[HD]. COMPACT PER SPEC SECTION 3.03 A. NATIVE SOILS MAY BE USED IF THEY MEET THE REQUIREMENTS OF SPEC SECTION 2.03A AND ARE ACCEPTED BY OWNER'S ENGINEER.

SIDE BACKFILL: 24" MIN. OF FREE DRAINING BACKFILL (SPEC SECTION 2.03B): STONE <1.5" OR SOIL (USCS CLASS GW, GP, SW OR SP). MUST BE FREE FROM LUMPS, DEBRIS AND OTHER SHARP OBJECTS. SPREAD EVENLY TO PREVENT R-TANK[HD] MOVEMENT. COMPACT SIDE BACKFILL WITH POWERED MECHANICAL COMPACTOR IN 12" LIFTS (PER SPEC SECTION 3.05 A2).

TYPICAL R-TANK DETAIL

SCALE: NTS

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SUBMITTAL NUMBER	DATE	CHANGES
1	MAY 2022	INITIAL SUBMITTAL
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CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370

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ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675

TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN

EXIST. ZONE: O-P, R-1 | PROP. ZONE: R-1-B | APN(S): 166-280-18, 166-280-60, 166-280-61

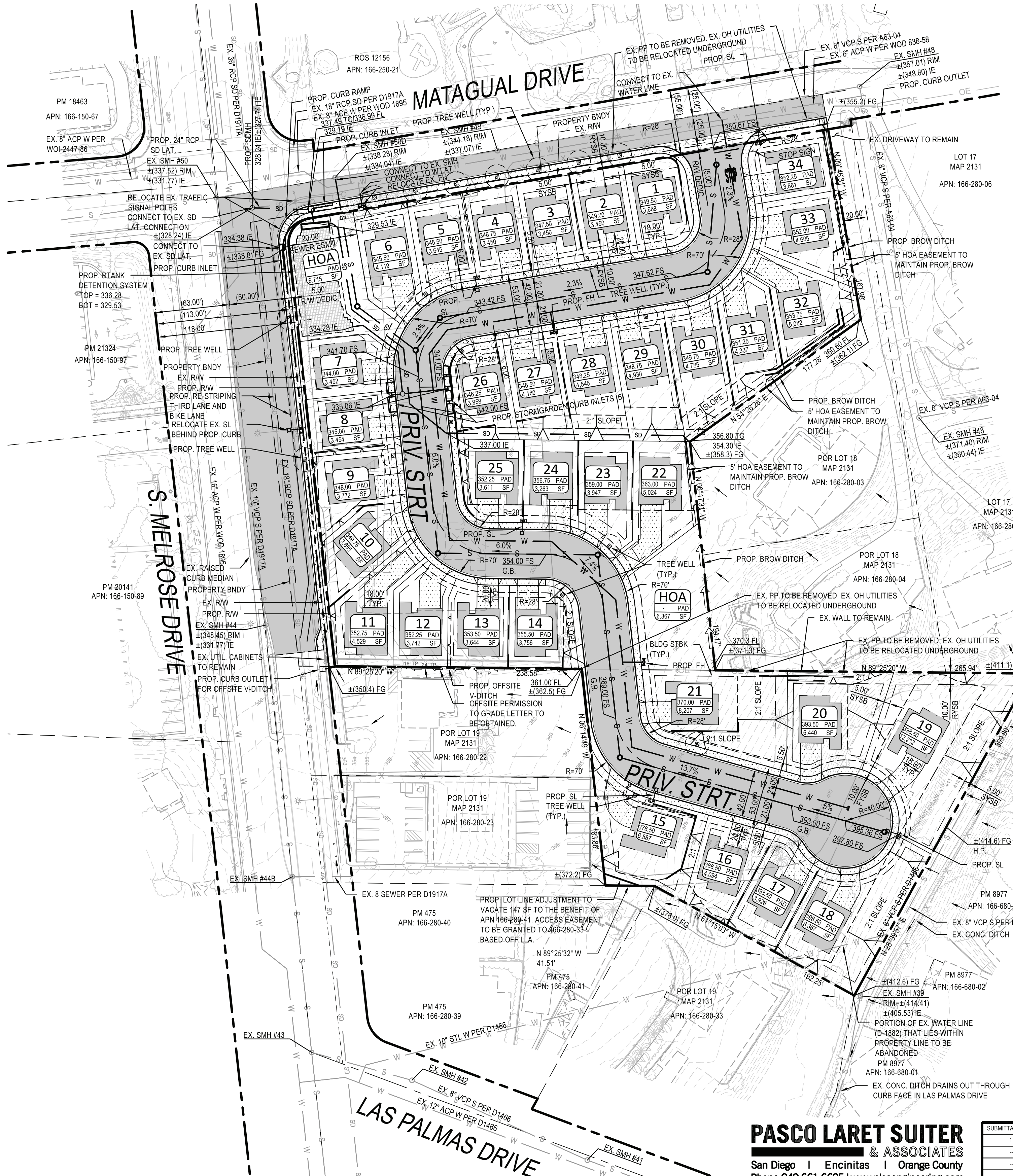
SITE DATA AREA (SQ. FT.)		COVERAGE %	DWELLING	UNITS	COMMON OPEN SPACE	
			2 BDRM	-	PROVIDED	REQUIRED
LOT:	227,752	100%	3 BDRM	-	13,082 SF	6,800 SF
BLDG:	47,940	21%	4 BDRM	17	PRIVATE OPEN SPACE	
PARKING/PVMT:	72,436	32%	5 BDRM	17	PROVIDED	REQUIRED
LANDSCAPE:	107,376	47%	TOTAL UNITS	34	18,700 SF	6,800 SF

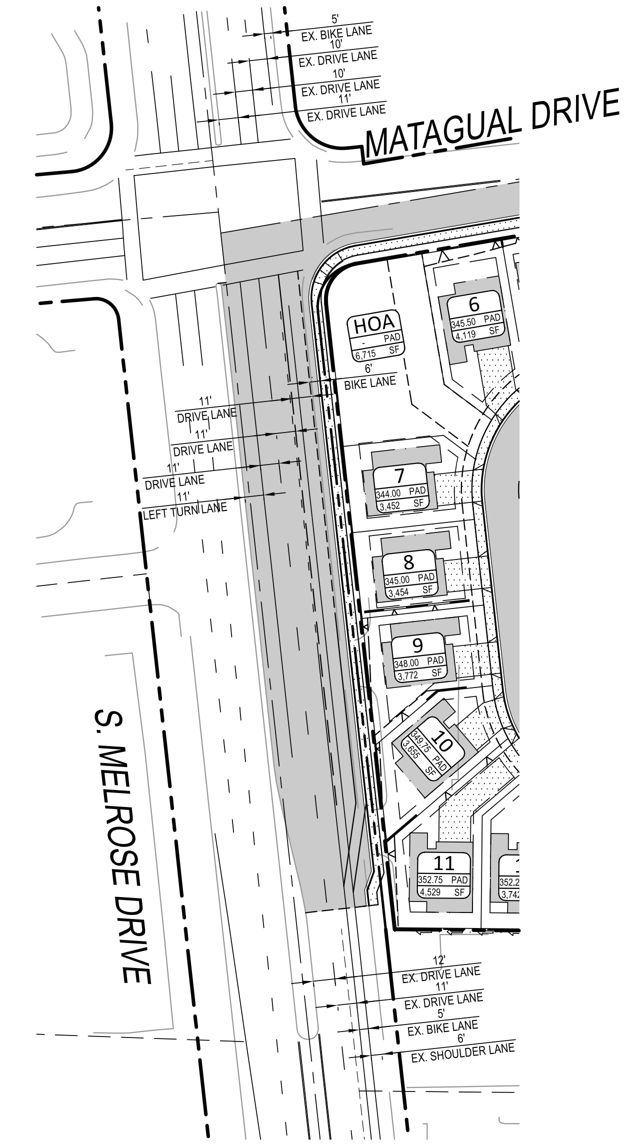
PARKING		ORD. REQ.	136		DRIVEWAY (SIZE & SLOPE)		SETBACKS	
GARAGE	68	LOADING	-	REC. VEH. STORAGE SPACES	1 WAY	12' MIN.	FRONT 10'/20'	REAR 10'
GUEST	68	HANDICAP	-		2 WAY	24' MIN.	L. SIDE 5'	SPECIAL N/A
OPEN	35	TOTAL	171	N/A	SLOPE	VARIES	R. SIDE 5'	ACCES. BLDG N/A

SAVE DATE: 11/21/22 ~ PLOT DATE: — ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\DRAWING\DISCRETIONARY PLANS\TENTATIVE MAP\3684-TM-TBLOCK.dwg

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: **P22-0218**





S. MELROSE DRIVE STRIPING

NOTE

1. SEE SHEET 21 FOR PROPOSED RETAINING WALL HEIGHT INFORMATION.
2. MINIMUM PRIVATE OPEN SPACE OF 200 S.F. PROVIDED PER UNIT (WITH MINIMUM 10-FOOT DIMENSION).

0 50 100 150
SCALE: 1" = 50'

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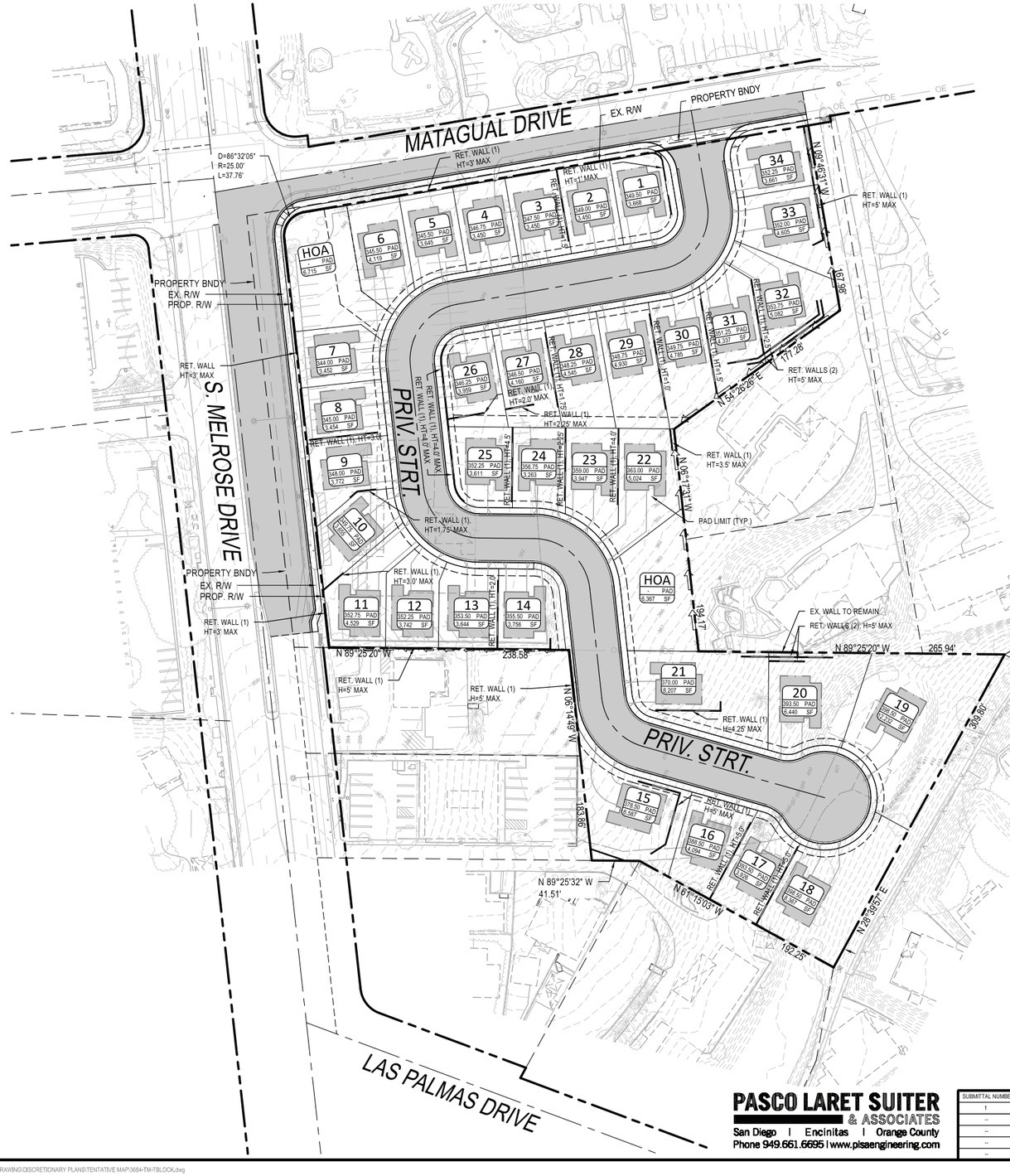
PROJECT FILE NUMBER: P22-0218



NOTE

1. ALL RETAINING WALLS TO BE SLUMP-STONE CMU WITH BRICK CAP (COLOR: SAND). SEE PLAN FOR WALL HEIGHTS.
2. SEE SHEET 20 FOR PROPOSED GRADING INFORMATION.
3. SEE SHEET 27 FOR NON-RETAINING SITE WALL TYPES, COLORS, FINISHES AND LOCATIONS.

0 50 100 150

SCALE: 1" = 50'

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		PROVIDED	REQUIRED
2 BDRM	-	13,082 SF	6,800 SF
3 BDRM	-	PRIVATE OPEN SPACE	
4 BDRM	17	PROVIDED	REQUIRED
5 BDRM	17	18,700 SF	6,800 SF
TOTAL UNITS	34		

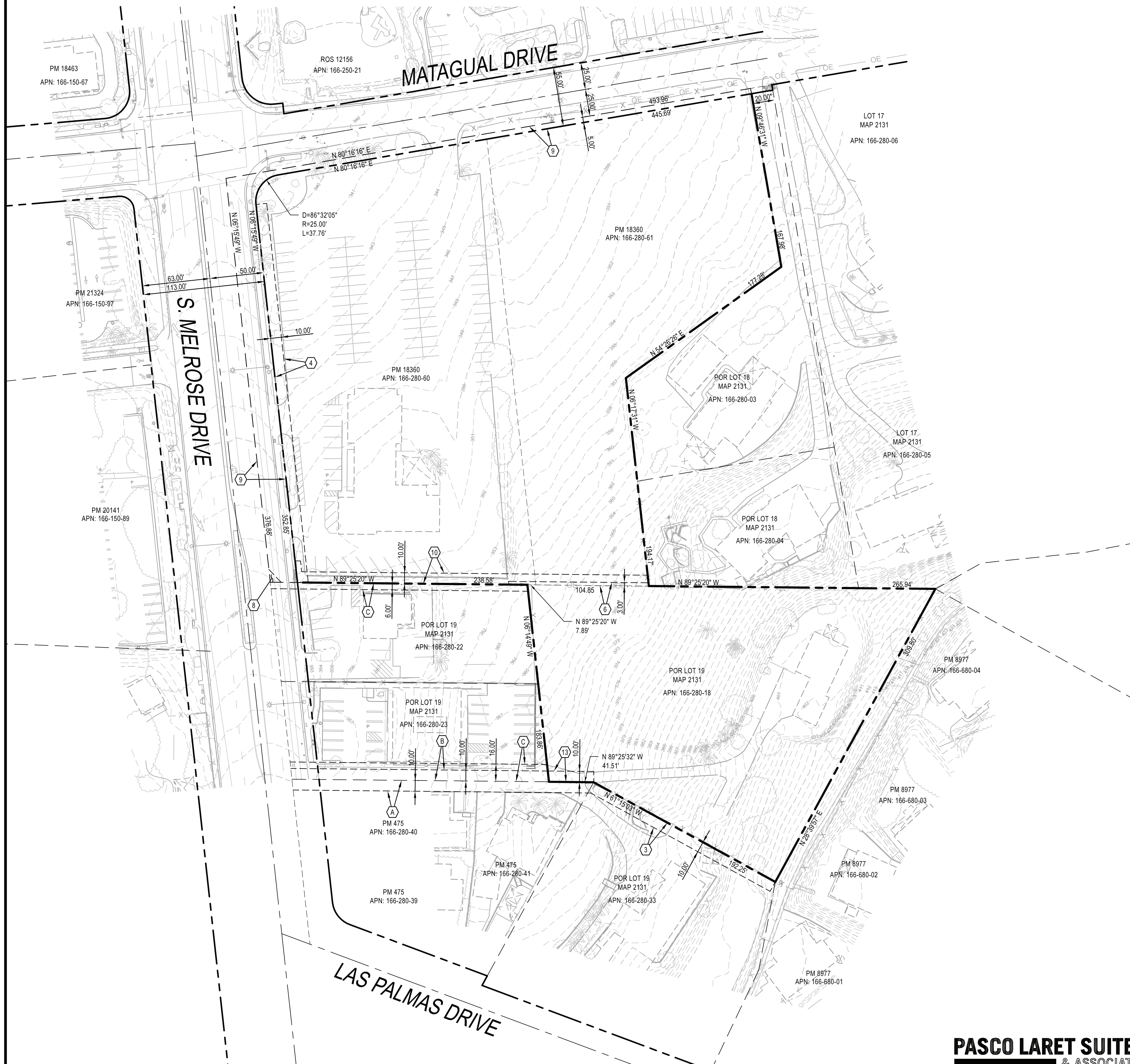
PARKING					
	ORD. REQ.	136			
GARAGE	68	LOADING	-	REC. VEH. STORAGE SPACES N/A	
GUEST	68	HANDICAP	-		
OPEN	35	TOTAL	171		

DRIVEWAY (SIZE & SLOPE)		SETBACKS	
1 WAY	12' MIN.	FRONT	10'/20' REAR 10'
2 WAY	24' MIN.	L. SIDE	5' SPECIAL N/A
SLOPE	VARIES	R. SIDE	5' ACCES. BLDG N/A

SAVE DATE: 11/21/22 – PLOT DATE: — – FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\DRAWING\DISCRETIONARY PLANS\TENTATIVE MAP\3684-TM-TBLOCK.dwg

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: **P22-0218**



EXISTING EASEMENTS

APPURTENANT EASEMENTS OF RECORD

(A) ACCESS EASEMENT "PARCEL B-1" PER DEED, 2006-0368438, O.R. REC. 05/24/2006

(B) ACCESS EASEMENT "PARCEL B-2" PER DEED, 2006-0368438, O.R. REC. 05/24/2006

(C) PUBLIC UTILITY EASEMENT "PARCEL B-3" PER DEED, 2006-0368438, O.R. REC. 05/24/2006

AFFECTS PARCEL A OF PARCEL 1:

(3) AN EASEMENT FOR PIPE LINES AND INCIDENTAL PURPOSES, IN FAVOR OF VISTA IRRIGATION DISTRICT, RECORDED APRIL 6, 1926 IN BOOK 1208 OF DEEDS, PAGE 84. THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.

(4) AN EASEMENT FOR SCENIC TREE AND INCIDENTAL PURPOSES, IN FAVOR OF CITY OF VISTA, A MUNICIPAL CORPORATION, RECORDED MARCH 3, 1976 AS INSTRUMENT NO. 76-62951 OF OFFICIAL RECORDS TO BE QUITCLAIMED.

AFFECTS PARCEL B OF PARCEL 1:

(6) AN EASEMENT FOR PRIVATE WATER LINE AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED MARCH 22, 1962 AS INSTRUMENT NO. 62-48758 OF OFFICIAL RECORDS TO BE QUITCLAIMED.

AFFECTS PARCELS A AND B OF PARCEL 1:

(8) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, IN FAVOR OF SAN DIEGO GAS AND ELECTRIC COMPANY, RECORDED OCTOBER 25, 1949 IN BOOK 3363, PAGE 74 OF OFFICIAL RECORDS.

(9) AN EASEMENT FOR A PUBLIC HIGHWAY AND INCIDENTAL PURPOSES, IN FAVOR OF CITY OF VISTA, RECORDED JANUARY 18, 1957 IN BOOK 6423, PAGE 364 AND MARCH 3, 1976 AS INSTRUMENT NO. 76-062952, BOTH OF OFFICIAL RECORDS. SAID INSTRUMENT ALSO GRANTS THE PRIVILEGE AND RIGHT TO EXTEND AND MAINTAIN DRAINAGE STRUCTURES AND EXCAVATION AND EMBANKMENT SLOPES BEYOND THE LIMITS OF SAID RIGHT OF WAY WHERE REQUIRED FOR THE CONSTRUCTION AND MAINTENANCE THEREOF.

(10) AN EASEMENT FOR PUBLIC UTILITIES, INGRESS, EGRESS AND INCIDENTAL PURPOSES, IN FAVOR OF SAN DIEGO GAS AND ELECTRIC COMPANY RECORDED MAY 30, 1989 AS INSTRUMENT NO. 89-282480 OF OFFICIAL RECORDS TO BE QUITCLAIMED.

AFFECTS PARCEL 2:

(12) AN EASEMENT FOR PUBLIC UTILITIES, INGRESS, EGRESS AND INCIDENTAL PURPOSES, IN FAVOR OF SAN DIEGO GAS AND ELECTRIC COMPANY RECORDED OCTOBER 25, 1949 AS BOOK 3363, PAGE 126 OF OFFICIAL RECORDS. THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.

(13) AN EASEMENT FOR INGRESS AND EGRESS FOR ROAD PURPOSES AND INCIDENTAL PURPOSES, IN FAVOR OF GILBERT T. HINTHORNE AND ESTHER M. HINTHORNE, RECORDED OCTOBER 28,1955 AS BOOK 5848, PAGE 71 OF OFFICIAL RECORDS TO BE QUITCLAIMED.

REFERENCES

ROS 13648
PM 18360
MAP 2131

0 50 100 150
SCALE: 1" = 50'

SIGNATURES CONSTITUTE THAT ALL PLANS, SPECIFICATIONS, GUARANTEES, AND OTHER REQUIREMENTS NECESSARY FOR ISSUANCE OF A BUILDING PERMIT CONFORMING TO THIS SITE DEVELOPMENT PLAN HAVE BEEN COMPLETED AND APPROVED BY THE APPROPRIATE DEPARTMENT.

PLANNING DEPARTMENT	DATE
ENGINEERING DEPARTMENT	DATE
FIRE DEPARTMENT	DATE
PUBLIC WORKS DEPARTMENT	DATE

SUBMITTAL NUMBER	DATE	CHANGES
1	MAY 2022	INITIAL SUBMITTAL
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PASCO LARET SUITER & ASSOCIATES
San Diego | Encinitas | Orange County
Phone 949.661.6695 | www.plsaengineering.com

CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370

ADDRESS: 4350 VON KARMAN AVENUE, SUITE 200, NEWPORT BEACH, CA 92660

ARCHITECT, ENGINEER OR DESIGNER: PASCO LARET SUITER & ASSOCIATES, INC. PHONE: 949-661-6695

ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675

TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN

EXIST. ZONE: O-P, R-1 | PROP. ZONE: R-1-B | APN(S): 166-280-18, 166-280-60, 166-280-61

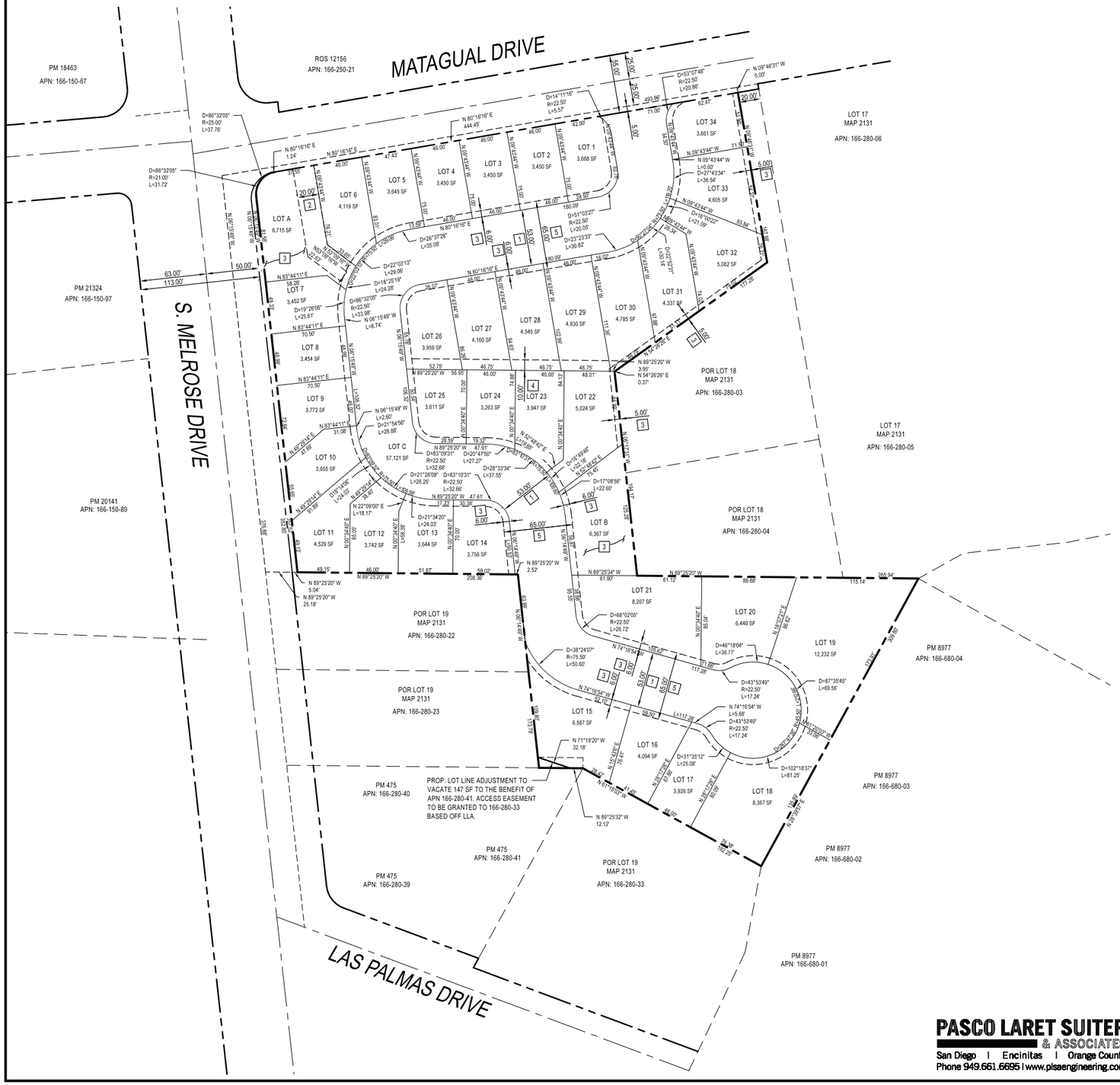
SITE DATA AREA (SQ. FT.)		COVERAGE %	DWELLING	UNITS	COMMON OPEN SPACE PROVIDED	REQUIRED
			2 BDRM	-	PROVIDED	REQUIRED
LOT:	227,752	100%	3 BDRM	-	13,082 SF	6,800 SF
BLDG:	47,940	21%	4 BDRM	17	PRIVATE OPEN SPACE	
PARKING/PVMT:	72,436	32%	5 BDRM	17	PROVIDED	REQUIRED
LANDSCAPE:	107,376	47%	TOTAL UNITS	34	18,700 SF	6,800 SF

PARKING		ORD. REQ.	136		DRIVEWAY (SIZE & SLOPE)		SETBACKS	
GARAGE	68	LOADING	-	REC. VEH. STORAGE SPACES	1 WAY	12' MIN.	FRONT 10'/20'	REAR 10'
GUEST	68	HANDICAP	-		2 WAY	24' MIN.	L. SIDE 5'	SPECIAL N/A
OPEN	35	TOTAL	171	N/A	SLOPE	VARIES	R. SIDE 5'	ACCES. BLDG N/A

SAVE DATE: 11/21/22 ~ PLOT DATE: -- ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\DRAWING\DISCRETIONARY PLANS\TENTATIVE MAP\3684-TM-TBLOCK.dwg

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: P22-0218



PROPOSED EASEMENTS

1. INDICATES PRIVATE ROAD AND PUBLIC SEWER EASEMENT TO THE CITY OF VISTA.
2. INDICATES ACCESS AND PUBLIC SEWER EASEMENT TO THE CITY OF VISTA.
3. INDICATES EASEMENT TO THE HOMEOWNER'S ASSOCIATION.
4. INDICATES PRIVATE STORM DRAIN EASEMENT TO THE HOMEOWNER'S ASSOCIATION.
5. INDICATES PUBLIC UTILITY EASEMENT TO THE CITY OF VISTA.

LEGEND

- TRACT BOUNDARY
- EXISTING RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- ADJACENT PROPERTY LINE

LOT MATRIX

LOT INFORMATION		
LOT NO.	LOT AREA (S.F.)	LOT USE TYPE
1	3,668	RESIDENTIAL
2	3,450	RESIDENTIAL
3	3,450	RESIDENTIAL
4	3,450	RESIDENTIAL
5	3,645	RESIDENTIAL
6	4,119	RESIDENTIAL
7	3,452	RESIDENTIAL
8	3,454	RESIDENTIAL
9	3,772	RESIDENTIAL
10	3,655	RESIDENTIAL
11	4,529	RESIDENTIAL
12	3,742	RESIDENTIAL
13	3,644	RESIDENTIAL
14	3,756	RESIDENTIAL
15	6,587	RESIDENTIAL
16	4,094	RESIDENTIAL
17	3,926	RESIDENTIAL

LOT INFORMATION		
LOT NO.	LOT AREA (S.F.)	LOT USE TYPE
18	8,367	RESIDENTIAL
19	12,232	RESIDENTIAL
20	6,440	RESIDENTIAL
21	8,207	RESIDENTIAL
22	5,024	RESIDENTIAL
23	3,947	RESIDENTIAL
24	3,263	RESIDENTIAL
25	3,611	RESIDENTIAL
26	3,959	RESIDENTIAL
27	4,160	RESIDENTIAL
28	4,545	RESIDENTIAL
29	4,930	RESIDENTIAL
30	4,785	RESIDENTIAL
31	4,337	RESIDENTIAL
32	5,082	RESIDENTIAL
33	4,605	RESIDENTIAL
34	3,661	RESIDENTIAL

LOT INFORMATION		
LOT NO.	LOT AREA (S.F.)	LOT USE TYPE
A	6,715	HOA
B	6,367	HOA
C	57,121	PRIVATE STREET

AVERAGE LOT AREA CALCULATIONS

TOTAL RESIDENTIAL LOT AREA (LOTS 1-34) = 157,857 SF (LOTS 1-34)
SMALLEST LOT/AREA = LOT 24 (3,263 SF)
LARGEST LOT/AREA = LOT 19 (12,232 SF)

AVERAGE LOT AREA = (157,857 SF - 3,263 - 12,232)/32 LOTS
= 4,448 SF/LOT

0 50 100 150
SCALE: 1" = 50'

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CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370

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ARCHITECT, ENGINEER OR DESIGNER: PASCO LARET SUITER & ASSOCIATES, INC. PHONE: 949-661-6695

ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675

TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN

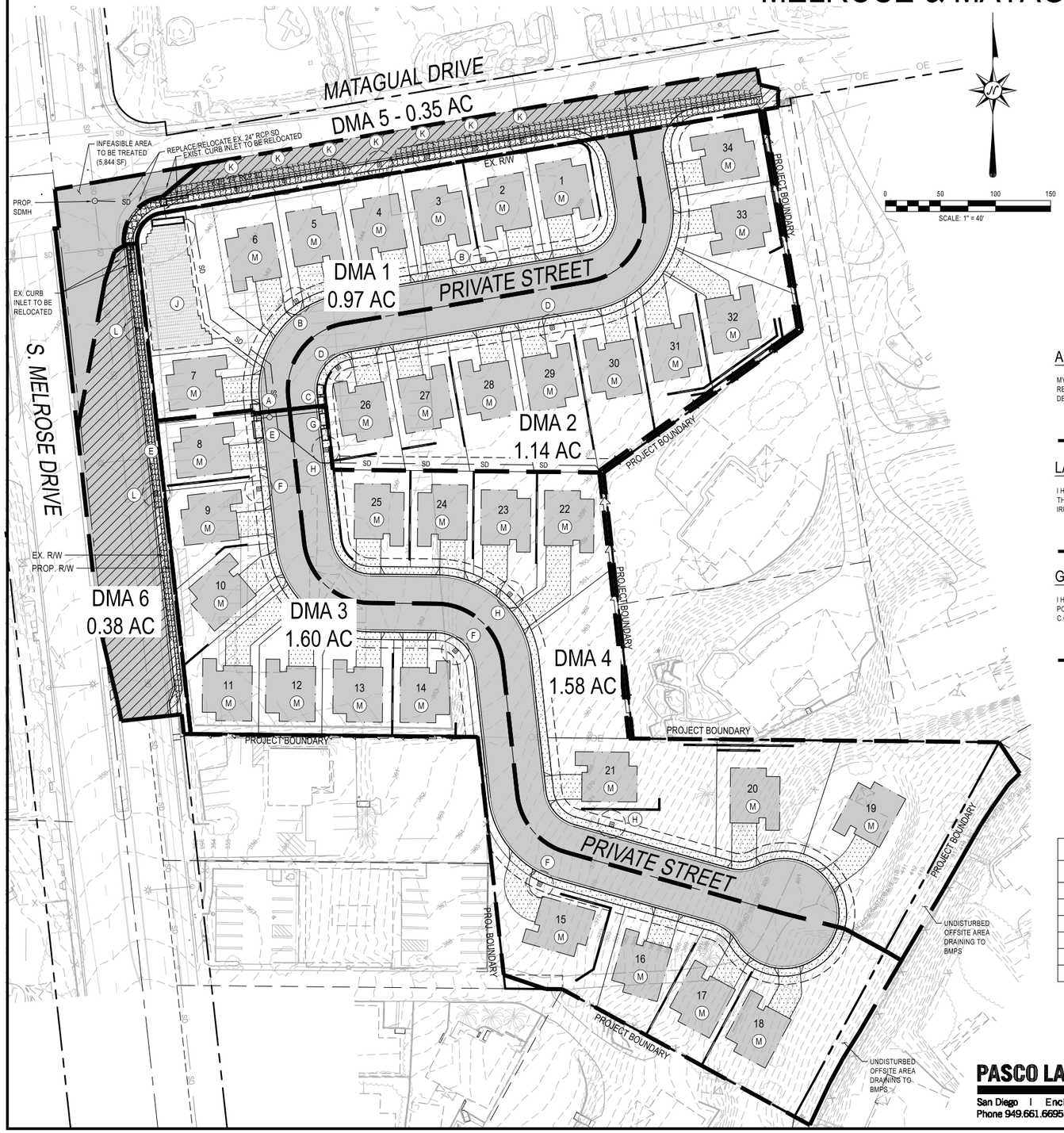
EXIST. ZONE: O-P, R-1 | PROP. ZONE: R-1-B | APN(S): 166-280-18, 166-280-60, 166-280-61

SITE DATA AREA (SQ. FT.)				DWELLING UNITS		COMMON OPEN SPACE	
			COVERAGE %	2 BDRM	-	PROVIDED	REQUIRED
LOT:	227,752		100%	3 BDRM	-	13,082 SF	6,800 SF
BLDG.:	47,940		21%	4 BDRM	17	PRIVATE OPEN SPACE	
PARKING/PVMT.:	72,436		32%	5 BDRM	17	PROVIDED	REQUIRED
LANDSCAPE:	107,376		47%	TOTAL UNITS	34	18,700 SF	6,800 SF
				DRIVEWAY (SIZE & SLOPE)			
PARKING		ORD. REQ.	136	SETBACKS			
GARAGE	68	LOADING	-	REC. VEH STORAGE SPACES	1 WAY 12' MIN.	FRONT 10'/20'	REAR 10'
GUEST	68	HANDICAP	-		2 WAY 24' MIN.	L. SIDE 5'	SPECIAL N/A
OPEN	35	TOTAL	171	N/A	SLOPE VARIES	R. SIDE 5'	ACCES. BLDG N/A

SAVE DATE: 11/21/22 ~ PLOT DATE: --- ~ FILE NAME: J:\ACTIVE JOBS\3684 MELROSE AND MATAGUAL\CIVIL\DRAWING\DISCRETIONARY PLANS\TENTATIVE MAP\3684-TM-TBLOCK.dwg

TENTATIVE SUBDIVISION MAP FOR MELROSE & MATAGUAL

PROJECT FILE NUMBER: P22-0218



RESPONSIBLE PARTY INFORMATION

TTLC VISTA MELROSE, LLC

2942 CENTURY PLACE SUITE 121

COSTA MESA, CA 92626

LEGEND

DESCRIPTION	SYMBOL
LOT NUMBER	10
DRAINAGE DIRECTION	→
DRAINAGE MANAGEMENT AREA	
STORMGARDEN	
RTANK	
IMPERVIOUS AREA (PUBLIC ROW) - EXISTING/REPLACED	
IMPERVIOUS AREA (PUBLIC ROW) - EXISTING/REMOVED	
IMPERVIOUS AREA (PUBLIC ROW) - NEW	
TREE WELL	

GENERAL INFORMATION

PROJECT SITE IS LOCATED IN THE VISTA H.S.A. (904.22) OF BUENA VISTA CREEK H.A. OF CARLSBAD H.U.

POLLUTANTS OF CONCERN - BENTHIC COMMUNITY EFFECTS, BIFENTHRIN, SELENIUM, AND TOXICITY

LID SITE DESIGN BMP'S

1. STORMGARDEN BIOFILTRATION SYSTEMS
2. RTANK DETENTION SYSTEM
3. ROOF DRAIN TO LANDSCAPING
4. MINIMIZE IMPERVIOUS SURFACES
5. PROTECT SLOPES AND CHANNELS

SOURCE CONTROL BMP'S

1. STORM DRAIN STENCILING
2. EMPLOY INTEGRATED PEST MANAGEMENT PRACTICES
3. EMPLOY EFFICIENT IRRIGATION AND DROUGHT TOLERANT LANDSCAPE DESIGN

SOIL INFORMATION

HYDROLOGIC SOIL GROUP: TYPE D

GROUND WATER INFORMATION

GROUND WATER WAS NOT ENCOUNTERED AT THE SITE. SEE REPORT PREPARED BY: GEOTEK, INC
DATED: AUGUST 3, 2021 PROJECT NO. 3706-SD

COARSE SEDIMENT YIELD

REFER TO ATTACHEMENT 2B OF THIS REPORT FOR CRITICAL COARSE SEDIMENT YIELD AREAS WITHIN THIS PROJECT SITE.

BMP NOTES

1. THESE BMPS AREA MANDATORY TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR THERE PLANS
2. NO CHANGES TO THE PROPOSED BMPS ON THIS SHEET WITHOUT PRIOR APPROVAL FORM THE CITY ENGINEERING DEPARTMENT
3. NO SUBSTITUTIONS TO THE MATERIAL TYPES OR PLANTING TYPES WITHOUT PRIOR APPROVAL FROM THE LAND DEVELOPMENT ENGINEER
4. NO OCCUPANCY WILL BE GRANTED UNTIL THE CITY INSPECTOR STAFF HAS INSPECTED THIS PROJECT FOR APPRORIATE BMP CONSTRUCTION AND INSTALLATION.

ARCHITECT NOTE

MY ARCHITECT'S SEAL AND SIGNATURE IS TO VERIFY THAT KTGY ARCHITECTURAL PLANNING HAS REVIEWED THIS PLAN PREPARED BY THE CIVIL ENGINEER AND HAS COORDINATED THE SCHEMATIC DESIGN OF THE BUILDING ARCHITECTURE ACCORDINGLY.

LANDSCAPE NOTE

I HAVE REVIEWED THE STORMGARDEN BIOFILTRATION SYSTEMS SHOWN ON THE CIVIL PLAN AND CONFIRM THAT THE CONCEPT LANDSCAPE PLANS ARE COORDINATED AND APPROPRIATE PLANTING AND IRRIGATION WILL BE DESIGNED IN THOSE SYSTEMS.

GEOTECHNICAL NOTE

I HAVE REVIEWED THE SOIL AND GEOLOGIC CONDITIONS FOR THIS PROJECT AND CONFIRM THE SELECTED POST CONSTRUCTION BMPS HAVE BEEN DISCUSSED, COORDINATED AND JUSTIFIED AS REQUIRED BY THE C.O.V. BMP DESIGN MANUAL.

BMP SUMMARY

DMA NO.	BMP #	BMP TYPE	BMP AREA/ QUANTITY	BMP OUTLET	OUTLET PIPE
1	A	STORMGARDEN	(1) SGT-0608	-	18"
	B	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
2	C	STORMGARDEN	(1) SGT-0406 (1) SGT-0408	-	18"
	D	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
3	E	STORMGARDEN	(1) SGT-0612	-	18"
	F	TREE WELLS	(3) 20' DIA. TREE WELL	-	-
4	G	STORMGARDEN	(2) SGT-0408	-	18"
	H	TREE WELLS	(3) 20' DIA. TREE WELL	-	-
1, 2, 3 & 4	J	RTANK DETENTION SYSTEM	3,200 SF 6.75 FT HIGH	2.5-INCH ORIFICE, 18-INCH WIDE 5-INCH HIGH ORIFICE @ 4' HIGH, 20-FT WIDE 6-INCH HIGH WEIR @ 6.25-FT HIGH	24"
5	K	TREE WELLS	(7) 20' DIA. TREE WELL	-	-
6	L	TREE WELLS	(2) 20' DIA. TREE WELL	-	-
-	M	ROOF DRAIN TO LANDSCAPING	68 (2 PER PAD)	-	-

POST-CONSTRUCTION PERMANENT BMP OPERATION & MAINTENANCE PROCEDURE DETAILS

STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT APPROVAL NO:

O&M RESPONSBILE PARTY DESIGNEE: PACIFIC INTERNATIONAL INVESTMENTS, INC

BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE METHOD	QUANTITY	SHEET NUMBER(S)
EDUCATION PROGRAM (SOURCE CONTROL)	ANNUAL	AS NEEDED	EMPLOYEE EDUCATION PROGRAM	-	N/A
SIGNAGE & STENCILING	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	-	N/A
STORMGARDEN	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	6	N/A
DETENTION VAULT - RTANK	ANNUAL	AS NEEDED	REPAIR AND/OR REPLACE AS NECESSARY	1	N/A
TREE WELLS	MONTHLY	AS NEEDED	INSPECT, TREE HEALTH MAINTENANCE, LOOSEN/REPLACE SOIL, DISPERSE STANDING WATER, RESTORE DRAINAGE	19	N/A

DMA DATA TABLE

DMA NO.	DRIVEWAY AREA (S.F.)	HOUSE AREA (S.F.)	SIDEWALK AREA (S.F.)	ROAD AREA (S.F.)	TOTAL IMPERVIOUS AREA (S.F.)	PERVIOUS AREA (S.F.)	UNDIST. PERVIOUS OFFSITE AREA (S.F.)	TOTAL AREA (S.F.)	TOTAL AREA (AC)
1	2,536	9,870	2,156	8,276	22,838	19,383	-	42,221	0.97
2	3,546	12,690	2,178	8,290	26,704	22,809	-	49,513	1.14
3	4,995	15,510	2,897	14,738	38,140	30,073	1,651	69,864	1.60
4	3,471	9,870	3,565	14,173	31,079	35,125	2,846	69,050	1.58
5	-	-	2,305	9,487	11,792	3,388	-	15,180	0.35
6	-	-	1,869	13,841	15,710	1,015	-	16,725	0.38

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CITY of VISTA

GP AMEND (CO, MLD TO MD), ZONE CHANGE (OP, R1 TO R-1-B), AND TSM (34 LOTS) - FILE # P22-0218

OWNER: TTLC VISTA MELROSE, LLC CONTACT: MICHAEL TORRES PHONE: (949) 645-5370

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ADDRESS: 27127 CALLE ARROYO, SUITE 1904 SAN JUAN CAPISTRANO, CA 92675

TYPE OF DEVELOPMENT: 34 SMALL LOT SUBDIVISION AND SITE DEVELOPMENT PLAN

EXIST. ZONE: O-P, R-1 PROP. ZONE: R-1-B APN(S): 166-280-18, 166-280-60, 166-280-61

SITE DATA AREA (SQ. FT.)		COVERAGE %
LOT:	227,752	100%
BLDG:	47,940	21%
PARKING/PVMT:	72,436	32%
LANDSCAPE:	107,376	47%

DWELLING UNITS		COMMON OPEN SPACE	
2 BDRM	-	PROVIDED	REQUIRED
3 BDRM	-	13,082 SF	6,800 SF
4 BDRM	17	PRIVATE OPEN SPACE	
5 BDRM	17	PROVIDED	REQUIRED
TOTAL UNITS	34	18,700 SF	6,800 SF

PARKING					
		ORD. REQ.	136		
GARAGE	68	LOADING	-	REC. VEH. STORAGE SPACES	N/A
GUEST	68	HANDICAP	-		
OPEN	35	TOTAL	171		

DRIVEWAY (SIZE & SLOPE)

1 WAY	12' MIN.	SLOPE	VARIES
2 WAY	24' MIN.		

SETBACKS

FRONT	10'/20'	REAR	10'
L. SIDE	5'	SPECIAL	N/A
R. SIDE	5'	ACCES. BLDG	N/A

SITE PLAN LANDSCAPE KEY

1. PARKWAY PLANTING (LOW, DROUGHT TOLERANT GROUNDCOVER)
2. SIDEWALK
3. ENTRY DRIVE
4. HABITAT AND HERITAGE GARDEN
5. 40' DIA PLAY AREA WITH STRUCTURE AND LOW SEAT WALLS/ RETAINING WALLS. PLAY AREA TO BE ACCESSIBLE WITH ENTRY RAMP, FIBAR SURFACING, AND ACCESSIBLE EQUIPMENT (per 11b-1008 of the 2019 CBC)
6. SHORT TREE BUFFER
7. RECREATION LAWN
8. 20'-0" WIDE SEWER EASEMENT, UNOBSTRUCTED. PATH DOUBLES AS ALL-WEATHER 6' WIDE ACCESS ROAD TO MANHOLE.
9. SEATING AREA WITH ACCESSIBLE SEATING (per 11-b division 9 of the 2019 CBC)
10. CONCRETE WALKWAY
11. LAWN AND DOG RUN OVER UNDERGROUND WATER CISTERN

LANDSCAPE CALCULATIONS

SEE COVER SHEET FOR SITE CALCULATIONS.
DUPLICATED BELOW FOR REFERENCE

SITE DATA AREA (SQ. FT.)				DWELLING	UNITS	COMMON OPEN SPACE	
		COVERAGE %		2 BDRM	-	PROVIDED	REQUIRED
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				DRIVEWAY (SIZE & SLOPE)			
PARKING		ORD. REQ.	136			SETBACKS	
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GUEST	68	HANDICAP	-		2 WAY 24' MIN.	L. SIDE 5'	SPECIAL N/A
OPEN	35	TOTAL	171	N/A	SLOPE VARIES	R. SIDE 5'	ACCES. BLDG N/A

TREE LEGEND

SYMBOL	SPECIES
	EVERGREEN STREET TREE GEIJERA PARVIFLORA / AUSTRALIAN WILLOW
	EVERGREEN ACCENT TREE RHUS LANCEA / AFRICAN SUMAC
	DECIDUOUS FLOWERING TREE CHILOPSIS LINEARIS / DESERT WILLOW

SEWER NOTES:
PROVIDE ROOT BARRIER WHERE TREES ARE WITHIN 10' OF SEWER EASEMENT. TREES SELECTED DO NOT HAVE INVASIVE ROOT SYSTEMS. NO OBSTRUCTIONS (TREES, SHRUBS, OR FENCES) TO OCCUR IN PUBLIC SEWER EASEMENT

0' 40' 80' 120' 160'
SCALE 1" = 40'

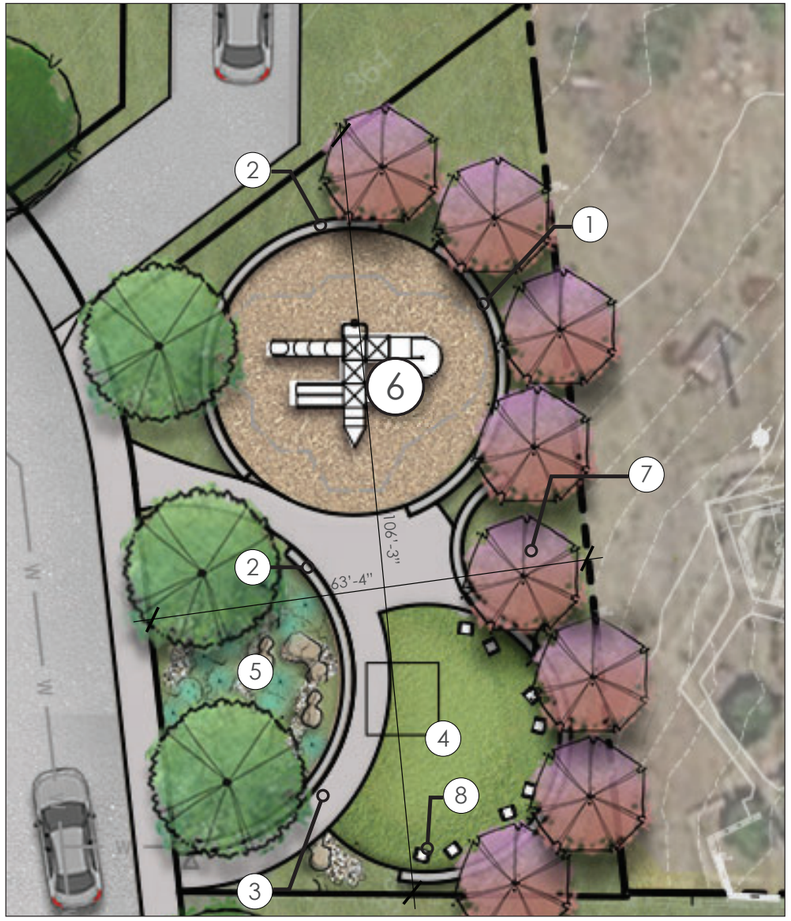
NORTH

TTLC MANAGEMENT INC
TTLC VISTA - MELROSE, LLC
4350 Von Karman Ave, Suite 200
Newport Beach, CA 92660

rrm design group

MATAGUAL & MELROSE SUBDIVISION
VISTA, CALIFORNIA

CONCEPTUAL LANDSCAPE PLAN
2661-01-RS21 November 22, 2022

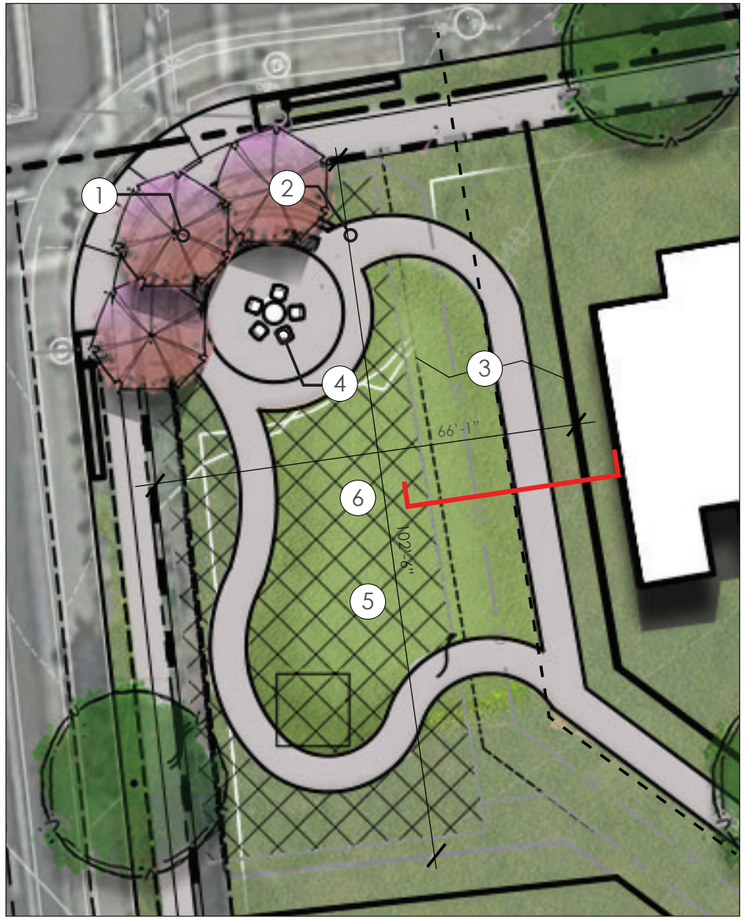


AMENITY AREA 1 KEYNOTES

1. RETAINING WALLS
2. SEAT WALL
3. CURVING CONCRETE PATH
4. RECREATION LAWN
5. HABITAT AND HERITAGE GARDEN
6. 40' DIA PLAY AREA WITH STRUCTURE AND LOW SEAT WALLS/RETAINING WALLS. PLAY AREA TO BE ACCESSIBLE WITH ENTRY RAMP, FIBAR SURFACING, AND ACCESSIBLE EQUIPMENT (per 11b-1008 of the 2019 CBC)
7. SHORT TREE BUFFER
8. PICNIC TABLES

OPEN SPACE: 6,715 SF

1 AMENITY AREA 1

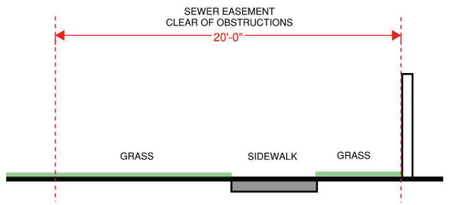


AMENITY AREA 2 KEYNOTES

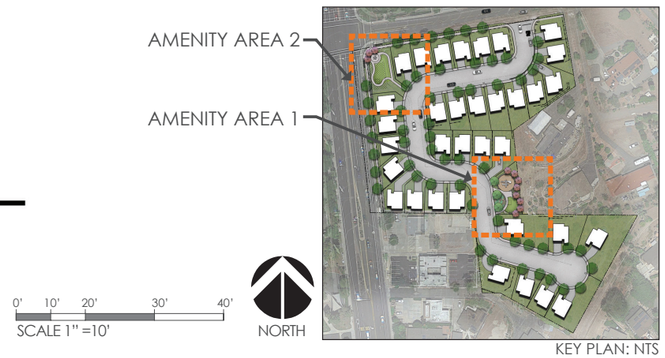
1. SHORT TREE BUFFER
2. CONCRETE WALKWAY
3. 20'-0" WIDE SEWER EASEMENT, UNOBSTRUCTED. PATH DOUBLES AS ALL-WEATHER 6' WIDE ACCESS ROAD TO MANHOLE.
4. BENCHES AND SEATING AREA (per 11-b division 9 of the 2019 CBC)
5. LAWN AND DOG RUN
6. UNDERGROUND WATER CISTERN

OPEN SPACE: 6,367 SF

2 AMENITY AREA 2



EASEMENT SECTION SKETCH
1/4" = 1''-0"



KEY PLAN: NTS

SITE ENCLOSURE LEGEND

- 5'-0" SLUMP-STONE CMU WALL WITH BRICK CAP COLOR: SAND -NEIGHBORHOOD WALLS
- 6'-0" SLUMP-STONE CMU WALL WITH BRICK CAP COLOR: SAND - PERIMETER WALL
- 6'-0" SLUMP-STONE CMU WALL WITH 3'-0" GLASS SCREEN, BRICK CAP COLOR: SAND - PERIMETER WALL ADJ. TO ROAD
- 3'-0" SLUMP-STONE CMU WALL WITH BRICK CAP COLOR: SAND

SITE LANDSCAPE LEGEND

36" H 360 DEGREE BOLLARD ON CONCRETE PLINTH

Finish
Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order
Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Mounting Option, and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Mounting
HW Hawthorne	006L4 (6 LED, Type 4)	035F (350 mA)	40K (4000K)	UV1 (100-277VAC)	SM (Surface Mount)
	012L5 (12 LED, Type 5)		35K (3500K)		
			30K (3000K)		

EXAMPLE: HW – 006L4 – 035F – 35K – UV1 – SM – Powdercoat Color

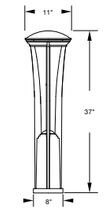
Product Modifications
Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty
LED lighting products are warranted for six years.

Certifications
UL Listed, CE, RoHS Compliant, Dark-Sky Approved

Hawthorne is designed by Robert A.M. Stern Architects

Click here for patent information related to this product.

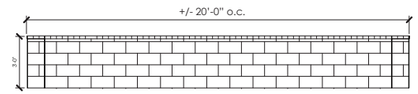


BOLLARD: "HAWTHORNE" BY LANDSCAPE FORMS

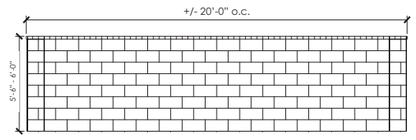
SITE ENCLOSURE IMAGERY

SLUMP-STONE BLOCK WALL

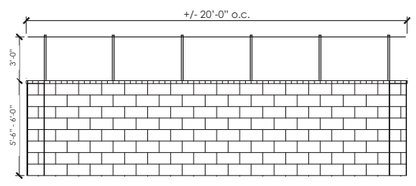
BLOCK AND GLASS



WALL ELEVATION



WALL ELEVATION



WALL ELEVATION

WALL NOTES
DECORATIVE COLUMNS TO BE PROVIDED EVERY +/- 20'-0" ON CENTER

0' 40' 80' 120' 160'
SCALE 1" = 40'

NORTH

TTLC MANAGEMENT INC
TTLC VISTA - MELROSE, LLC
4350 Von Karman Ave, Suite 200
Newport Beach, CA 92660

rrm design group

MATAGUAL & MELROSE SUBDIVISION

VISTA, CALIFORNIA

ENCLOSURE DIAGRAM

2661-01-RS21 November 22, 2022

PRODUCT IMAGERY

Artificial Turf

Play Structure (5-12 years)

Habitat Garden

Decomposed Granite Trail

Bollard Light

LANDSCAPE NOTES

PLANTING DESIGN CRITERIA

BASED ON THE CITY OF VISTA CITYWIDE DESIGN GUIDELINES, THE PLANT PALETTE BELOW IS COMPRISED OF PLANT MATERIALS AND TREES KNOWN TO THRIVE IN THE LOCAL CLIMATE AND SOIL CONDITIONS. THE PLANT PALETTE IS COMPRISED OF PLANTS NATIVE TO MEDITERRANEAN CLIMATES. 20% OR LESS OF THE PLANT MATERIAL WILL REQUIRE MODERATE WATER, AND THE REMAINDER WILL REQUIRE LOW TO VERY LOW WATER ONCE ESTABLISHED. THIS PLANT PALETTE COUPLE WITH THE IRRIGATION SYSTEM DESCRIBED AT THE LEFT WILL MEET OR EXCEED THE STATE AND LOCAL STANDARDS FOR WATER CONSERVATION THROUGH WATER EFFICIENT LANDSCAPE IRRIGATION DESIGN. 90% OF ORNAMENTAL SHRUBS AND GRASSES BY AREA WILL BE 1 GALLON CONTAINERS SPACED ON AVERAGE 30" O.C. 10% OF PLANTING BY AREA WILL BE 5 GALLON CONTAINERS, AND WILL BE UTILIZED FOR SPECIMEN PLANTING AND SCREENING.

ALL ABOVE UTILITIES WILL BE SCREENED WITH VEGETATION.

IRRIGATION DESIGN CRITERIA

A WEATHER SENSING, 'SMART CONTROLLER' WILL BE USED TO MONITOR THE IRRIGATION WATER AND MANAGE DAILY WATER CONSUMPTION TO THE MINIMUM REQUIREMENTS FOR EACH HYDROZONE.

ALL TREES, POTTERY, SHRUB AND GROUNDCOVER AREAS WILL BE IRRIGATED ON SEPARATE HYDROZONES WITH DRIP OR BUBBLER IRRIGATION, SO THAT ONCE ESTABLISHED, WATER CAN BE REGULATED IN A MORE EFFICIENT MANNER.
I CERTIFY THAT THIS PLANT PALETTE COUPLED WITH THE IRRIGATION SYSTEM DESCRIBED ABOVE WILL MEET OR EXCEED THE STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO).

SCOTT NEIMAN
LANDSCAPE ARCHITECT | CA LICENSE NUMBER 6104

ARBUTUS 'MARINA'

CHILOPSIS LINEARIS

GEIJERA PARVIFLORA

RHUS LANCEA

ACCA SELLOWIANA

ACHILLEA 'MOONSHINE'

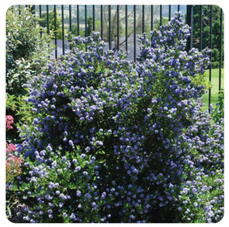
AGAVE ATTENUATA

ALYOGYNE HUEGELII

ARCTOSTAPHYLOS EDMUNDSII

ARTEMISIA ARBORESCENS

BOUTELOUA GRACILIS


CEANOTHUS 'DARK STAR'

DODONAEA VISCOSA

ECHIUM CANDICANS

ENCELIA CALIFORNICA

ERIOGONUM UMBELLATUM

FESTUCA MAIREI

FESTUCA 'SISKYOU BLUE'

GREVILLEA ALPINA 'MT. DANDENONG'

JUSTICIA SPICIGERA

LAVATERA MARITIMA

LEONOTIS LEONURUS

LESSINGIA FILAGINIFOLIA 'SILVER CARPET'

MUHLENBERGIA DUBIA

PENSTEMON MARGARITA BOP

PEROVSKIA 'BLUE JEAN BABY'

PEROVSKIA 'LITTLE SPIRE'

PHLOMIS FRUTICOSA

SALVIA CHAMAEDRYOIDES

SANTOLINA CHAMAECYPARISSUS

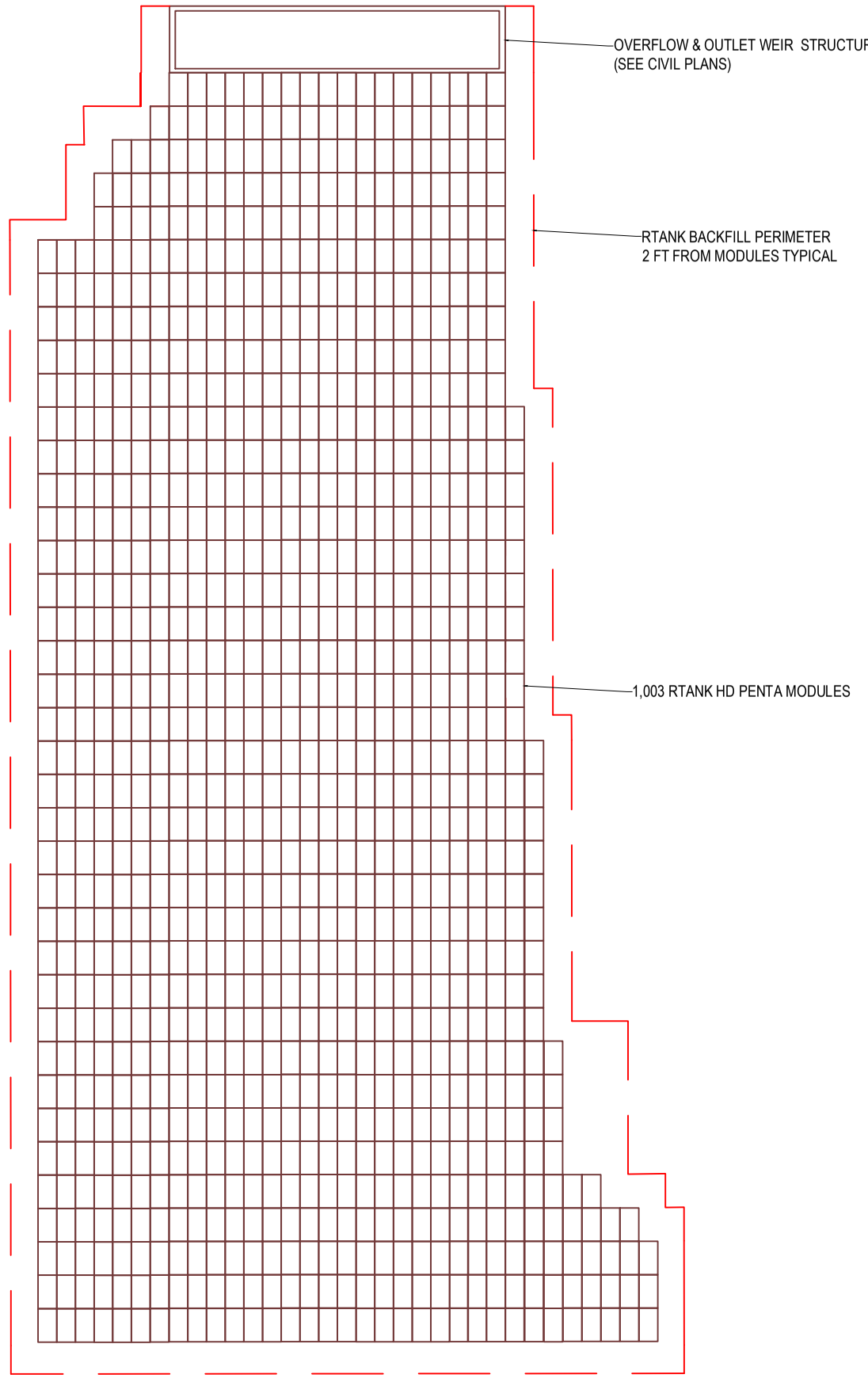
TEUCRIUM FRUTICANS

WESTRINGIA FRUTICOSA 'GREY BOX'

CONCEPTUAL PLANT PALETTE

TREES	TYPE	SIZE
ARBUTUS 'MARINA'	TYPICAL RESIDENTIAL TREE	15 GAL
CHILOPSIS LINEARIS	ACCENT DECIDUOUS TREE	15 GAL
GEIJERA PARVIFLORA	STREET TREE	15 GAL
RHUS LANCEA	MULTI-TRUNK EVERGREEN	24" BOX

SHRUBS	COMMON NAME	SIZE
ACCA SELLOWIANA	PINEAPPLE GUAVA	1 GAL
ACHILLEA 'MOONSHINE'	FIREFLY DIAMOND YARROW	1 GAL
AGAVE ATTENUATA	FOX TAIL AGAVE	1 GAL
ALYOGYNE HUEGELII	BLUE HIBISCUS	1 GAL
ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR'	CARMEL SUR MANZANITA	1 GAL
ARISTIDA PURPUREA	PURPLE THREE AWN GRASS	1 GAL
ARTEMISIA ARBORESCENS	SILVER WORMWOOD	1 GAL
BOUTELOUA GRACILIS	BLONDE AMBITION BLUE GRAMA	1 GAL
CEANOTHUS 'DARK STAR'	DARK STAR CEANOTHUS	1 GAL
DODONAEA VISCOSA	GREEN HOPSEED BUSH	1 GAL
ECHIUM CANDICANS	PRIDE OF MADEIRA	1 GAL
ENCELIA CALIFORNICA	CALIFORNIA BRITTLEBUSH	1 GAL
ERIOGONUM UMBELLATUM	SULFUR FLOWER	1 GAL
FESTUCA MAIREI	ATLAS FESCUE	1 GAL
FESTUCA 'SISKYOU BLUE'	SISKYOU BLUE FESCUE	1 GAL
GREVILLEA ALPINA 'MT. DANDENONG'	MOUNTAIN GREVILLEA	1 GAL
JUSTICIA SPICIGERA	MEXICAN HONEYSUCKLE	1 GAL
LAVATERA MARITIMA	MEDITERRANEAN TREE MALLOW	1 GAL
LEONOTIS LEONURUS	LION'S TAIL	1 GAL
LESSINGIA FILAGINIFOLIA 'SILVER CARPET'	SILVER CARPET BEACH ASTER	1 GAL
MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL
PENSTEMON MARGARITA BOP	BEARDTONGUE	1 GAL
PEROVSKIA 'BLUE JEAN BABY'	BLUE JEAN BABY RUSSIAN SAGE	1 GAL
PEROVSKIA 'LITTLE SPIRE'	RUSSIAN SAGE	1 GAL
PHLOMIS FRUTICOSA	JERUSALEM SAGE	1 GAL
SALVIA CHAMAEDRYOIDES	GERMANDER SAGE	1 GAL
SALVIA 'POZO BLUE'	CLEVELAND SAGE	1 GAL
SALVIA LEUCANTHA 'SANTA BARBARA'	MEXICAN BUSH SAGE	1 GAL
SANTOLINA CHAMAECYPARISSUS	SANTOLINA	1 GAL
TEUCRIUM FRUTICANS	BUSH GERMANDER	1 GAL
WESTRINGIA FRUTICOSA	COAST ROSEMARY	1 GAL



TANK

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(858) 705-6483 Fax: (858) 487-8355

R-TANK^{HD} SYSTEM LAYOUT
MELROSE & MATAGUAL
VISTA, CA

DRAWN BY
KCR

DATE
11/21/22

SHEET NO.
1 of 1

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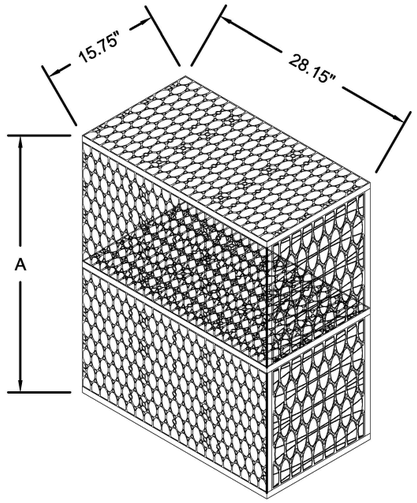
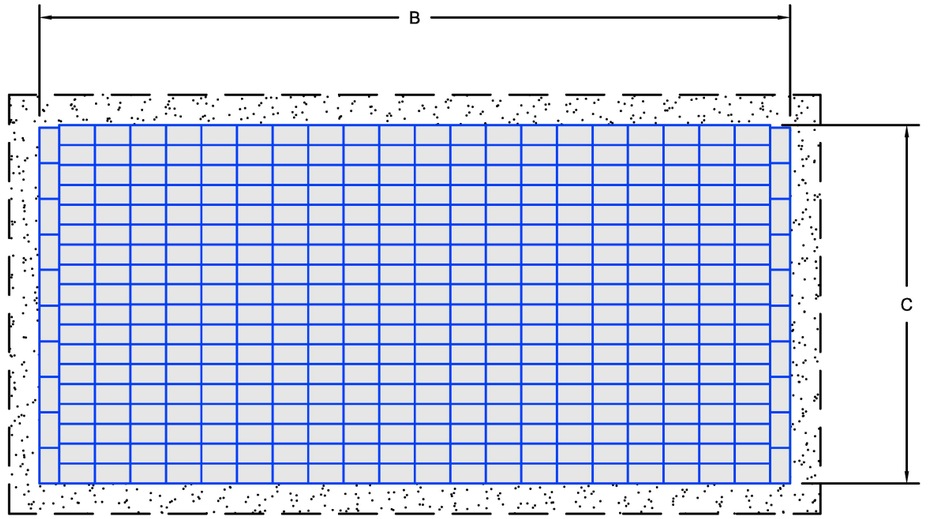
R-TANK DETAILS

REF.	DESCRIPTION	DETAIL
	R-TANK MODULE TYPE	HD
	R-TANK MODULE SIZE	PENTA
	# OF R-TANK MODULES	1003
A	MODULE HEIGHT (IN)	83.46
B	SYSTEM LENGTH (FT)	
C	SYSTEM WIDTH (FT)	



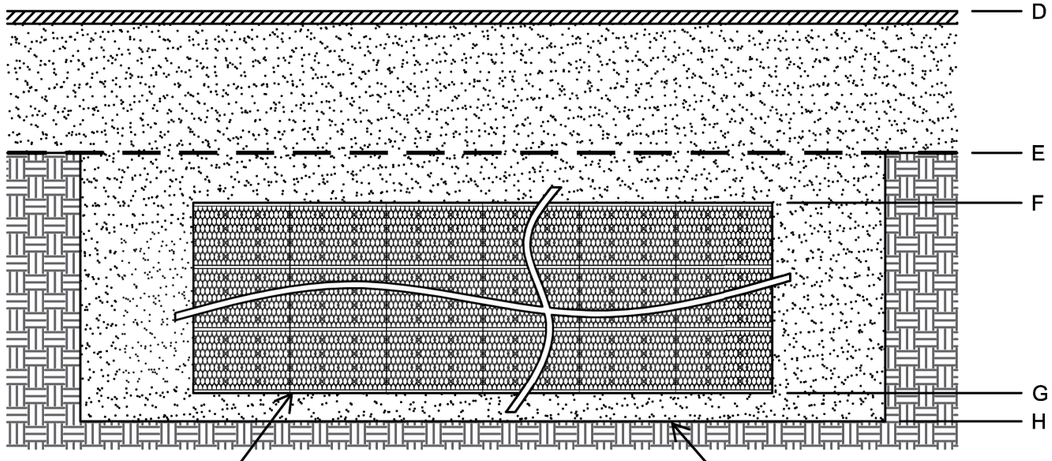
INDIVIDUAL R-TANK MODULE
(REFER TO TABLE TO LFET FOR ACTUAL MODULE HEIGHT. GRAPHIC DOES NOT REPRESENT SPECIFIC MODULE USED)



R-TANK PLAN VIEW
(FOR ACTUAL MODULE COUNT, REFER TO TABLE TO LEFT. GRAPHIC DOES NOT REPRESENT ACTUAL SYSTEM LAYOUT)

SYSTEM DETAILS

REF.	DESCRIPTION	DETAIL
	TOTAL SYSTEM STORAGE (CF)	21,788
	R-TANK STORAGE VOLUME (CF)	20,401
	STONE STORAGE VOLUME (CF)(40% V.R.)	1,387
D	MAXIMUM FINAL GRADE ELEV.	113.95
	MINIMUM FINAL GRADE ELEV.	108.62
E	GEOGRID ELEV.	107.46
F	TOP OF R-TANK ELEV.	106.96
G	TANK INVERT	100.00
H	INVERT OF STONE BASE	99.75



8 OZ NON WOVEN GEOTEXTILE AROUND RTANK MODULES (TOP, BOTTOM & SIDES)

30 MM IMPERMEABLE LINER W/ 4 OZ NON WOVEN GEOTEXTILE ON EACH SIDE FOR PROTECTION (SIDES & BOTTOM)

R-TANK SECTION VIEW
(GRAPHIC DOES NOT REPRESENT ACTUAL HEIGHT OF SYSTEM)

ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

FOR ADDITIONAL INFORMATION PLEASE CONTACT:
ACF ENVIRONMENTAL 1-800-448-3636
www.acfenvironmental.com

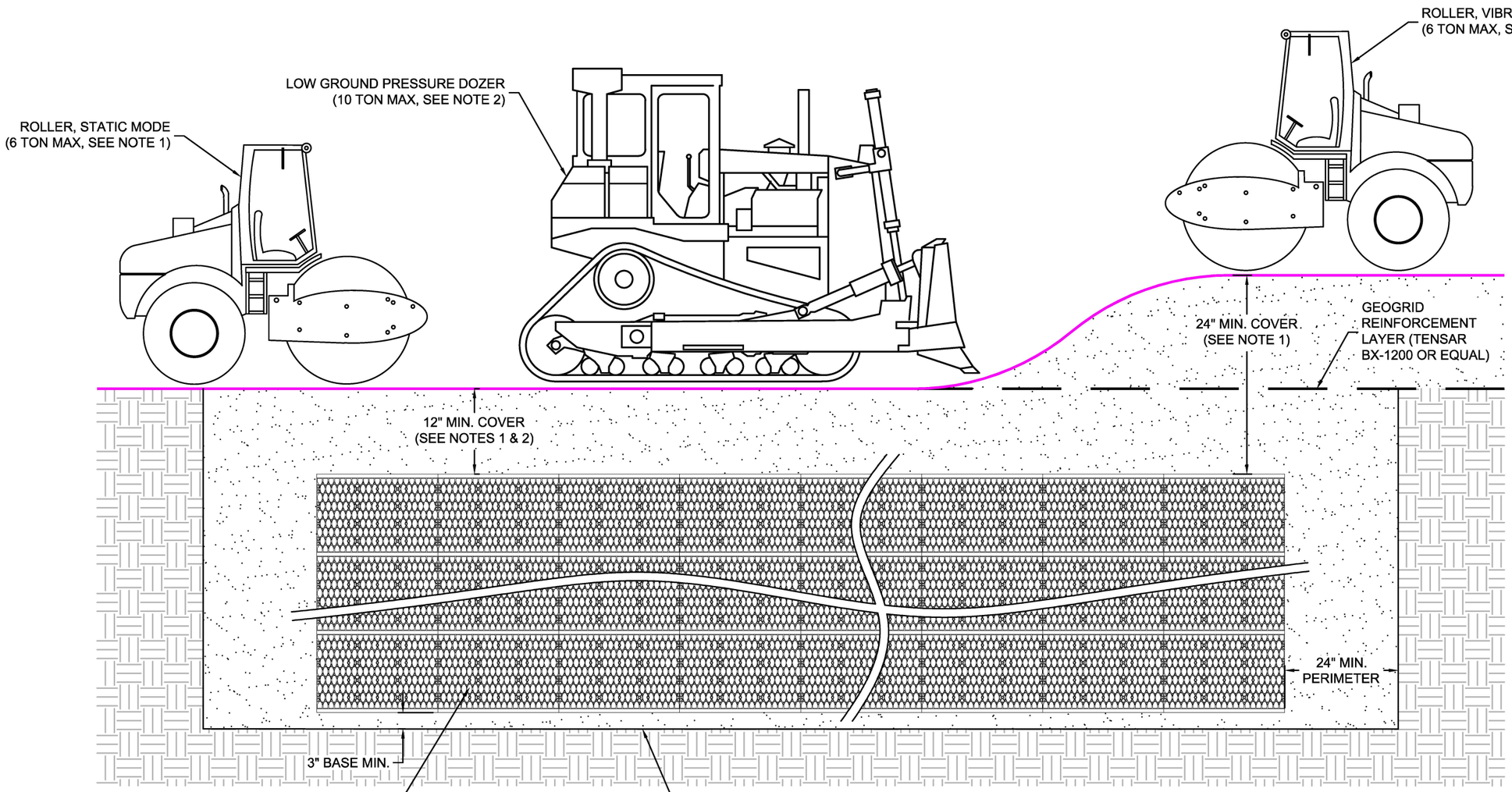
R-TANK SHOP DRAWING
MELROSE & MATAGUAL
VISTA, CALIFORNIA
SITE DESIGNATION: UGDS
ACF ENVIRONMENTAL, 1-800-448-3636, www.acfenvironmental.com

DATE
11/21/22

SHEET NO.
1 of 1

NOTES:

1. FOLLOWING PLACEMENT OF SIDE BACKFILL, A UNIFORM 12" LIFT OF THE FREELY DRAINING MATERIAL (SPEC SECTION 2.03 B) SHALL BE PLACED OVER THE R-TANK AND LIGHTLY COMPACTED USING A WALK-BEHIND TRENCH ROLLER. ALTERNATELY, A ROLLER (MAXIMUM GROSS VEHICLE WEIGHT OF 6 TONS) MAY BE USED. ROLLER MUST REMAIN IN STATIC MODE UNTIL A MINIMUM OF 24" OF COVER HAS BEEN PLACED OVER THE MODULES. SHEEP FOOT ROLLERS SHOULD NOT BE USED. **SPEC SECTION 3.05 A**
2. ONLY LOW PRESSURE TIRE OR TRACK VEHICLES (LESS THAN 7 PSI AND OPERATING WEIGHT OF LESS THAN 20,000 LBS) SHALL BE OPERATED OVER THE R-TANK SYSTEM DURING CONSTRUCTION. **SPEC SECTION 3.05 B**
3. DUMP TRUCKS AND PANS SHALL NOT BE OPERATED WITHIN THE R-TANK SYSTEM AT ANY TIME. WHERE NECESSARY, THE HEAVY EQUIPMENT SHOULD UNLOAD IN AN AREA ADJACENT TO THE R-TANK SYSTEM AND THE MATERIAL SHOULD BE MOVED OVER THE SYSTEM WITH TRACKED EQUIPMENT. **SPEC SECTION 3.05 B**
4. ENSURE THAT ALL UNRELATED CONSTRUCTION TRAFFIC IS KEPT AWAY FROM THE LIMITS OF EXCAVATION UNTIL THE PROJECT IS COMPLETE AND FINAL SURFACE MATERIALS ARE IN PLACE. NO NON-INSTALLATION RELATED LOADING SHOULD BE ALLOWED OVER THE R-TANK SYSTEM UNTIL THE FINAL DESIGN SECTION HAS BEEN CONSTRUCTED (INCLUDING PAVEMENT). **SPEC SECTION 3.05 C**
5. SEE R-TANK INSTALLATION GUIDE OR CONTACT YOUR LOCAL ACF REPRESENTATIVE FOR ADDITIONAL INFORMATION.



NOT TO SCALE

DATE	REVISION

FOR ADDITIONAL INFORMATION PLEASE CONTACT:
CALIFORNIA FILTRATION
SPECIALISTS
858-705-6483
www.cafiltrationspecialists.com

R-TANK^HD/SD CONSTRUCTION EQUIPMENT COVER DETAIL

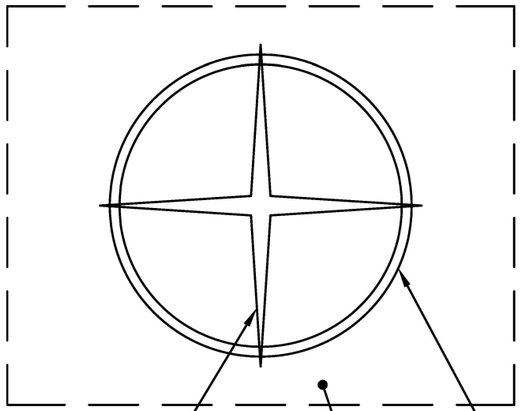
ACF ENVIRONMENTAL, 1-800-448-3636, www.acfenvironmental.com

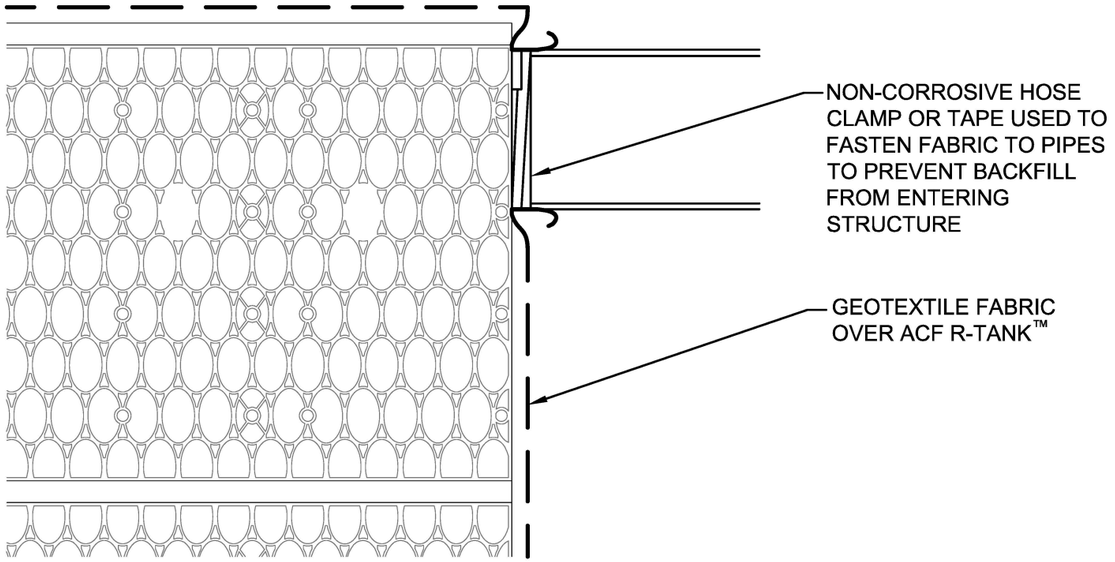
DRAWN BY: EDQ

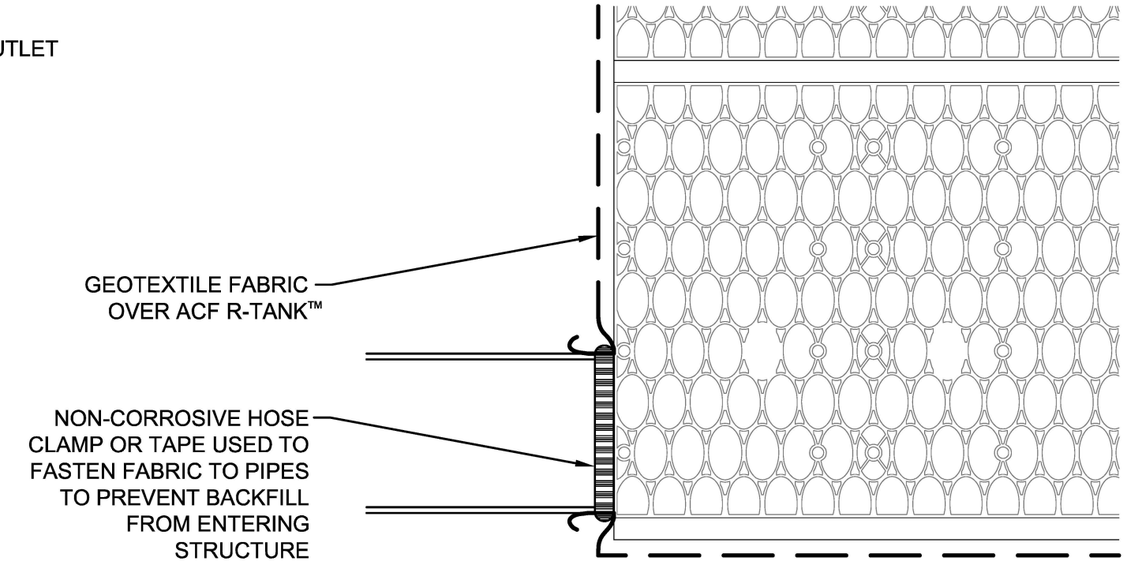
DATE: 08/07/17

SHEET NO.: 1 of 1

END VIEW OF PIPE/FABRIC CONNECTION.
CUT AN "X" IN THE FABRIC SLIGHTLY LARGER THAN PIPE, PULL THE FABRIC AROUND THE PIPE TO CREATE THE "BOOT" AND THEN SECURE WITH A HOSE-CLAMP.





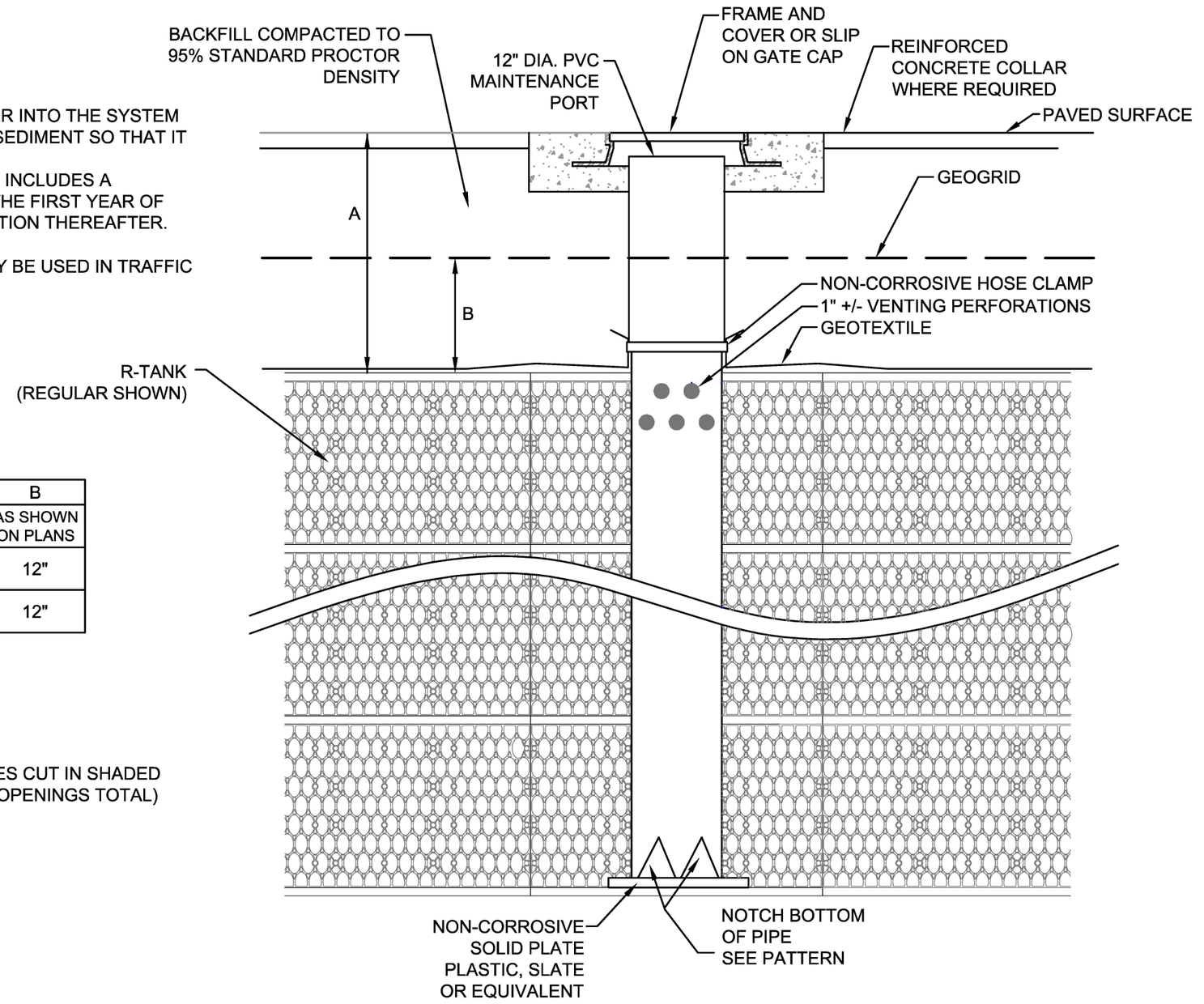


R-TANK™ TYPICAL TANK INLET/OUTLET DETAIL

FOR ADDITIONAL INFORMATION PLEASE CONTACT: California Filtration Specialists, 858-705-6483, www.cafiltrationspecialists.com

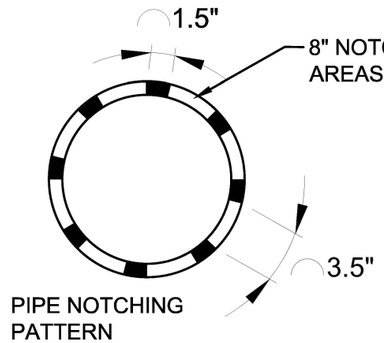
NOTES

- THIS PORT IS USED TO PUMP WATER INTO THE SYSTEM AND RE-SUSPEND ACCUMULATED SEDIMENT SO THAT IT MAY BE PUMPED OUT.
- MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.
- ONLY R-TANK^{HD} AND R-TANK^{SD} MAY BE USED IN TRAFFIC APPLICATIONS.



DEPTH SUMMARY

TYPE	A	B
R-TANK	12" MIN - 36" MAX	AS SHOWN ON PLANS
R-TANK^{HD}	20" MIN - 6.99' MAX	12"
R-TANK^{SD}	18" MIN - 9.99' MAX	12"



PIPE NOTCHING PATTERN

ACF ENVIRONMENTAL
LET'S GET IT DONE

CFS
CALIFORNIA FILTRATION SPECIALISTS

MAINTENANCE PORT

FOR R-TANK^{LD}, R-TANK^{HD}, AND R-TANK^{SD}

FOR ADDITIONAL INFORMATION PLEASE CONTACT: California Filtration Specialists, 858-705-6483, www.cafiltrationspecialists.com

R-Tank Stage-Storage Chart

Project Name:	MELROSE & MATAGUAL
Project Location:	VISTA, CA

Bottom Elevation of R-Tank:	100	ft	Total Number of R-Tank Units:	1003	HD PENTA
Top Elevation of R-Tank:	106.95	ft	Square Footage of System:	3560	sf
*System Capacity:	21788.24	cf	Square Footage of RTANK:	3,061	sf

*INCLUDES MODULE + SIDE STONE
STORAGE VOLUME @ 40% VOID RATIO

Stage	Storage
100.00 ft	0.0 cf
100.10 ft	313.5 cf
100.20 ft	627.0 cf
100.30 ft	940.5 cf
100.40 ft	1,254.0 cf
100.50 ft	1,567.5 cf
100.60 ft	1,881.0 cf
100.70 ft	2,194.5 cf
100.80 ft	2,508.0 cf
100.90 ft	2,821.5 cf
101.00 ft	3,135.0 cf
101.10 ft	3,448.5 cf
101.20 ft	3,762.0 cf
101.30 ft	4,075.5 cf
101.40 ft	4,389.0 cf
101.50 ft	4,702.5 cf
101.60 ft	5,016.0 cf
101.70 ft	5,329.5 cf
101.80 ft	5,643.0 cf
101.90 ft	5,956.5 cf
102.00 ft	6,270.0 cf
102.10 ft	6,583.5 cf
102.20 ft	6,897.0 cf
102.30 ft	7,210.5 cf
102.40 ft	7,524.0 cf
102.50 ft	7,837.5 cf
102.60 ft	8,151.0 cf
102.70 ft	8,464.5 cf
102.80 ft	8,778.0 cf
102.90 ft	9,091.5 cf
103.00 ft	9,405.0 cf
103.10 ft	9,718.5 cf
103.20 ft	10,032.0 cf
103.30 ft	10,345.5 cf
103.40 ft	10,659.0 cf
103.50 ft	10,972.5 cf
103.60 ft	11,286.0 cf
103.70 ft	11,599.5 cf
103.80 ft	11,913.0 cf
103.90 ft	12,226.5 cf
104.00 ft	12,540.0 cf
104.10 ft	12,853.5 cf
104.20 ft	13,167.0 cf
104.30 ft	13,480.5 cf

Stage	Storage
104.40 ft	13,794.0 cf
104.50 ft	14,107.5 cf
104.60 ft	14,421.0 cf
104.70 ft	14,734.5 cf
104.80 ft	15,048.0 cf
104.90 ft	15,361.5 cf
105.00 ft	15,675.0 cf
105.10 ft	15,988.5 cf
105.20 ft	16,302.0 cf
105.30 ft	16,615.5 cf
105.40 ft	16,929.0 cf
105.50 ft	17,242.5 cf
105.60 ft	17,556.0 cf
105.70 ft	17,869.5 cf
105.80 ft	18,183.0 cf
105.90 ft	18,496.5 cf
106.00 ft	18,810.0 cf
106.10 ft	19,123.5 cf
106.20 ft	19,437.0 cf
106.30 ft	19,750.5 cf
106.40 ft	20,064.0 cf
106.50 ft	20,377.5 cf
106.60 ft	20,691.0 cf
106.70 ft	21,004.5 cf
106.80 ft	21,318.0 cf
106.90 ft	21,631.5 cf
106.95 ft	21,788.2 cf
106.95 ft	21,788.2 cf
106.95 ft	21,788.2 cf
106.95 ft	21,788.2 cf
106.95 ft	21,788.2 cf
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106.95 ft	21,788.2 cf
106.95 ft	21,788.2 cf

Appendix I
Noise Technical Report

Noise Technical Report

Vista Melrose Residential Project

FEBRUARY 2023

Prepared for:

MICHAEL TORRES
2777 Paradise Road, Suite 3406
Newport Beach, CA 92660

Prepared by:

DUDEK

605 Third Street
Encinitas, California 92024
Contact: Connor Burke, INCE

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Vista
CNEL	Community Noise Equivalent Level
dB	decibel
dBA	A-weighted decibel
FTA	Federal Transit Administration
ips	inches per second
L_{dn}	day–night average noise level
L_{eq}	equivalent noise level
L_{max}	maximum sound level
L_{min}	minimum sound level
Vista Melrose	proposed project
PPV	peak particle velocity
RCNM	Roadway Construction Noise Model
SLM	Sound level meter
SPL	Sound pressure level
ST	Short-term
STC	Sound Transmission Class
TL	Transmission Loss
VdB	Velocity Decibel

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1 Introduction

1.1 Report Purpose and Scope

This technical noise report evaluates the potential noise impacts during construction and operation of the proposed Vista Melrose Residential project (proposed project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act Guidelines (14 CCR 15000 et seq.).

1.2 Regional and Local Setting

The project site is located in the central portion of the City of Vista in San Diego County, CA at 560 S. Melrose Drive and 622 S. Melrose Drive. The project site is bound by Matagual Drive to the north, S. Melrose Drive to the West, commercial and residential development to the south and residential development to the east (Figure 1, Project Location). A portion of the project site is vacant with the Thriving Life Church and associated parking lot on the western portion of the site, and a single residence in the southeastern portion of the site. The approximately 5.55-acre site includes Assessor's Parcel Numbers designated Commercial Office (APNs 166-280-60-00 and 166-280-61-00) and Medium Low Density Residential (APN 166-280-18-00) in the City's General Plan and zoned R-1 (APNs 166-280-60-00 and 166-280-18-00) and commercial (APN 166-280-61-00).

1.3 Project Description

The proposed Vista Melrose Residential Project (Project) consists of a residential development within the City of Vista (City) at 560 S. Melrose Drive, 622 S. Melrose Drive and APN#166-280-61-00. The approximately 5.55-acre site includes Assessor's Parcel Numbers [APNs] 166-280-60-00, 166-280-61-00, and 166-280-18-00. The properties at 560 S. Melrose Drive and APN 166-280-61-00 are both currently zoned O-P (Office Professional) and a corresponding General Plan designation of Commercial Office (CO). The property at 622 S. Melrose Drive is currently zoned R-1 (Residential) and has a corresponding General Plan designation of Medium Low Density Residential (MLD). The applicant, TTLC Vista Melrose, LLC, proposes to rezone all three properties to R-1-B (Residential) with a corresponding General Plan change to Medium Density Residential (MD). Furthermore, the applicant proposes a thirty-seven (37) lot Tentative Subdivision Map to redevelop the site to include thirty-four (34) single-family residences, which would result in a proposed density of 6.1 dwelling units per acre, a private street, private park with a tot lot and a dog park (Figure 2, Site Plan).

The project would include a total of 108,911 square feet of open space, of which 12,526 square feet is common open space. The project would include landscaping throughout the project site and along the project boundary Each residence would be two stories, contain 4 bedrooms with 5th optional bedroom or loft and would have a 2- car garage. The project will utilize the City of Vista Small Lot Subdivision standards per Vista Development Code Section 18.33 to achieve their project design. The proposed project would also include landscaping and offsite street and utility improvements.

1.4 Fundamentals of Noise and Vibration

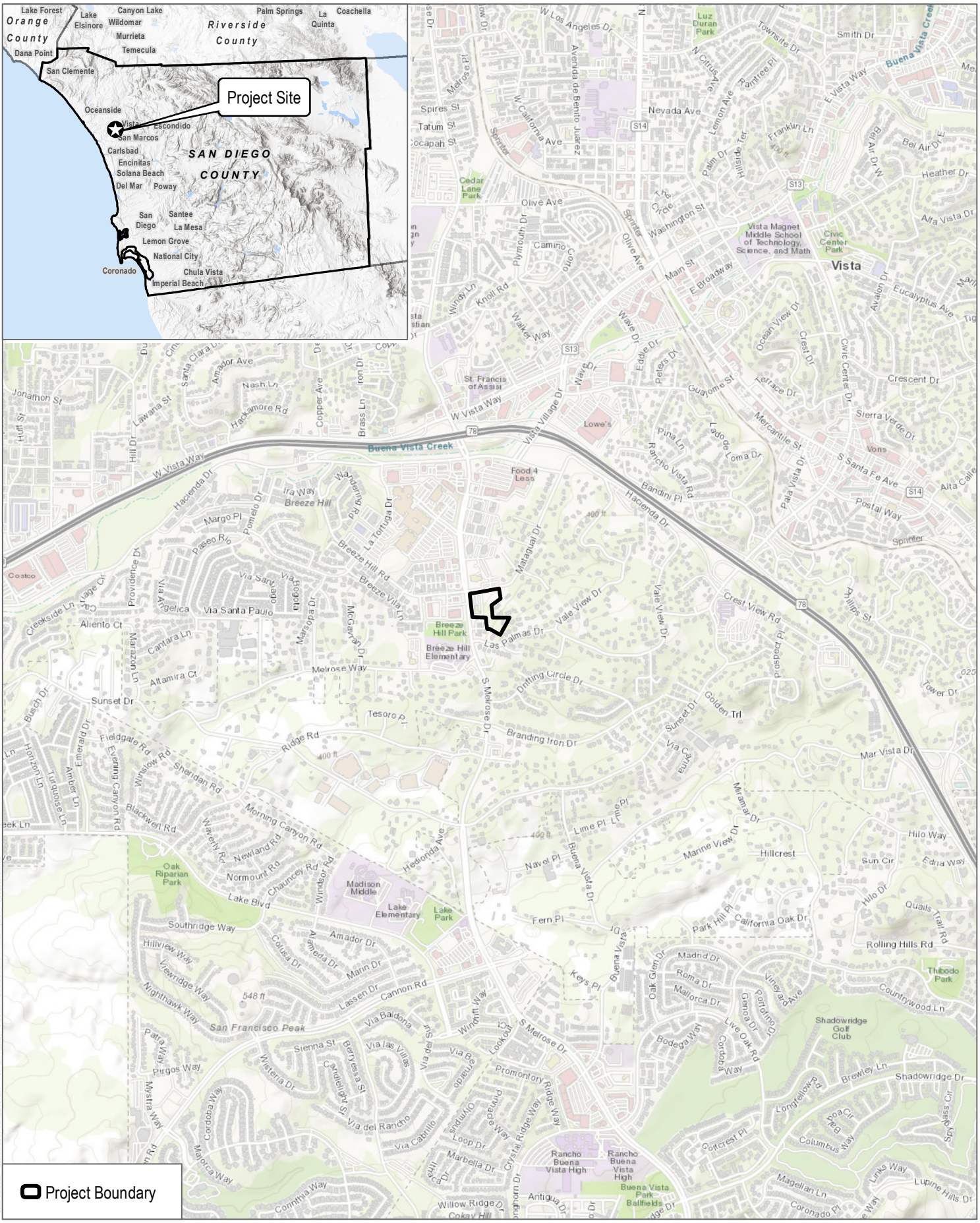
The following is a brief discussion of fundamental noise concepts and terminology.

1.4.1 Sound, Noise, and Acoustics

Sound is actually a process that consists of three components: the sound source, sound path, and sound receiver. All three components must be present for sound to exist. Without a source to produce sound, there is no sound. Similarly, without a medium to transmit sound pressure waves, there is no sound. Finally, sound must be received; a hearing organ, sensor, or object must be present to perceive, register, or be affected by sound or noise. In most situations, there are many different sound sources, paths, and receptors rather than just one of each. Acoustics is the field of science that deals with the production, propagation, reception, effects, and control of sound. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired.

1.4.2 Sound Pressure Levels and Decibels

The amplitude of a sound determines its loudness. Loudness of sound increases with increasing amplitude. Sound pressure amplitude is measured in units of micronewton per square meter, also called micropascal. One micropascal is approximately one-hundred billionth (0.00000000001) of normal atmospheric pressure. The pressure of a very loud sound may be 200 million micropascals, or 10 million times the pressure of the weakest audible sound. Because expressing sound levels in terms of micropascal would be very cumbersome, sound pressure level in logarithmic units is used instead to describe the ratio of actual sound pressure to a reference pressure squared. These units are called Bels. To provide a finer resolution, a Bel is subdivided into 10 decibels (dB).



SOURCE: Esri (Accessed 2022)

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Vista Melrose

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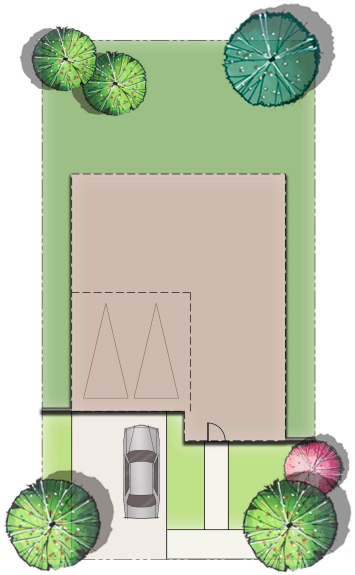

TYP. LOT
ENLARGEMENT
Scale:1"=10'

0 20 40 80

SOURCE: KTGY 2022

DUDEK

FIGURE 2
Site Plan
Vista Melrose

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1.4.3 A-Weighted Sound Level

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness, or human response, is determined by the characteristics of the human ear.

Human hearing is limited not only in the range of audible frequencies, but also in the way it perceives the sound in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 and 5,000 hertz, and it perceives a sound within that range as more intense than a sound of higher or lower frequency with the same magnitude. To approximate the frequency response of the human ear, a series of sound level adjustments is usually applied to the sound measured by a sound level meter. The adjustments (referred to as a weighting network) are frequency-dependent.

The A-scale weighting network approximates the frequency response of the average young ear when listening to ordinary sounds. When people make judgments about the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special situations (e.g., B-scale, C-scale, D-scale), but these scales are rarely used in conjunction with most environmental noise. Noise levels are typically reported in terms of A-weighted sound levels. All sound levels discussed in this report are A-weighted decibels (dBA). Examples of typical noise levels for common indoor and outdoor activities are depicted in Table 1.

Table 1. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dB)	Common Indoor Activities
—	110	Rock band
Jet fly over at 300 meters (1,000 feet)	100	—
Gas lawn mower at 1 meter (3 feet)	90	—
Diesel truck at 15 meters (50 feet), at 80 kilometers per hour (50 miles per hour)	80	Food blender at 1 meter (3 feet); garbage disposal at 1 meter (3 feet)
Noisy urban area, daytime; gas lawn mower at 30 meters (100 feet)	70	Vacuum cleaner at 3 meters (10 feet)
Commercial area; heavy traffic at 90 meters (300 feet)	60	Normal speech at 1 meter (3 feet)
Quiet urban, daytime	50	Large business office; dishwasher next room
Quiet urban, nighttime	40	Theater; large conference room (background)
Quiet suburban, nighttime	30	Library
Quiet rural, nighttime	20	Bedroom at night; concert hall (background)
—	10	Broadcast/Recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing

Source: Caltrans 2020.

1.4.4 Human Response to Changes in Noise Levels

Under controlled conditions in an acoustics laboratory, the trained, healthy human ear is able to discern changes in sound levels of 1 dBA when exposed to steady, single-frequency signals in the mid-frequency range. Outside such controlled conditions, the trained ear can detect changes of 2 dBA in normal environmental noise. It is widely accepted that the average healthy ear, however, can barely perceive noise level changes of 3 dBA. A change of 5 dBA is readily perceptible, and a change of 10 dBA is *perceived* as twice (if a gain) or half (if a loss) as loud. A doubling of sound energy results in a 3-dBA increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a road) would result in a barely perceptible change in sound level.

1.4.5 Noise Descriptors

Additional units of measure have been developed to evaluate the long-term characteristics of sound. The energy-equivalent sound level (L_{eq}) is also referred to as the time-average sound level. It is the equivalent steady-state or constant sound level that in a stated period of time would contain the same acoustical energy as the time-varying sound level during the same time period. For instance, the 1-hour A-weighted equivalent sound level, $L_{eq}(h)$, is the energy average of the A-weighted sound levels occurring during a 1-hour period, and is the basis for most of the County Noise Ordinance standards.

People are generally more sensitive to and thus potentially more annoyed by noise occurring during the evening and nighttime hours. Hence, another noise descriptor used in community noise assessments—the community noise equivalent level (CNEL)—represents a time-weighted, 24-hour average noise level based on the A-weighted sound level. However, unlike an unmodified 24 hour L_{eq} value, the CNEL descriptor accounts for increased noise sensitivity during the evening (7 p.m. to 10 p.m.) and nighttime (10 p.m. to 7 a.m.) by adding 5 dBA and 10 dBA, respectively, to the average sound levels occurring during these defined hours within a 24-hour period.

1.4.6 Sound Propagation

Sound propagation (i.e., the traverse of sound from a noise emission source position to a receiver location) is influenced by multiple factors that include geometric spreading, ground absorption, atmospheric effects, and occlusion by natural terrain and/or features of the built environment.

Sound levels attenuate (or diminish) geometrically at a rate of approximately 6 dBA per doubling of distance from an outdoor point-type source due to the spherical spreading of sound energy with increasing distance travelled. The effects of atmospheric conditions such as humidity, temperature, and wind gradients are typically distance-dependent and can also temporarily either increase or decrease sound levels measured or perceived at a receptor location. In general, the greater the distance the receiver is from the source of sound emission, the greater the potential for variation in sound levels at the receptor due to these atmospheric effects. Additional attenuation can result from sound path occlusion and diffraction due to intervention of natural (ridgelines, dense forests, etc.) and built features (such as solid walls, buildings and other structures).

1.4.7 Groundborne Vibration Fundamentals

Groundborne vibration is fluctuating or oscillatory motion transmitted through the ground mass (i.e., soils, clays, and rock strata). The strength of groundborne vibration attenuates rapidly over distance. Some soil types transmit vibration quite efficiently; other types (primarily sandy soils) do not. Several basic measurement units are commonly used to describe the intensity of ground vibration. The descriptors used by the Federal Transit Administration (FTA) are peak particle velocity (PPV), in units of inches per second (ips), and velocity decibel (VdB) that is based on a root-mean square (RMS) of the vibration signal magnitude. The calculation to determine PPV at a given distance is as follows:

$$PPV_{distance} = PPV_{ref}*(25/D)^{1.5}$$

Where:

$PPV_{distance}$ = the peak particle velocity in inches per second of the equipment adjusted for distance

PPV_{ref} = the reference vibration level in inches per second at 25 feet

D = the distance from the equipment to the receiver

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2 Regulatory Setting

2.1 Federal

In its Transit Noise and Vibration Impact Assessment guidance manual, the Federal Transit Administration (FTA) recommends a daytime construction noise level threshold of 80 dBA L_{eq} over an 8-hour period (FTA 2018) when detailed construction noise assessments are performed to evaluate potential impacts to community residences surrounding a project. Although this FTA guidance is not a regulation, it can serve as a quantified standard in the absence of such noise limits at the state and local jurisdictional levels.

2.2 State

2.2.1 California Code of Regulations, Title 24

Title 24 of the California Code of Regulations sets standards that new development in California must meet. According to Title 24, interior noise levels are not to exceed 45 dBA CNEL in any habitable room (ICC 2019).

2.2.2 California Department of Health Services Guidelines

The California Department of Health Services has developed guidelines of community noise acceptability for use by local agencies (OPR 2017). Selected relevant levels are listed here:

- Below 60 dBA CNEL: normally acceptable for low-density residential use
- 50 to 70 dBA: conditionally acceptable for low-density residential use
- Below 65 dBA CNEL: normally acceptable for high-density residential use and transient lodging
- 60 to 70 dBA CNEL: conditionally acceptable for high-density residential, transient lodging, churches, educational, and medical facilities

The normally acceptable exterior noise level for high-density residential use is up to 65 dBA CNEL. Conditionally acceptable exterior noise levels range up to 70 dBA CNEL for high-density residential use.

2.2.3 California Department of Transportation

In its Transportation and Construction Vibration Guidance Manual (Caltrans 2013b), the California Department of Transportation (Caltrans) recommends 0.5 ips PPV as a threshold for the avoidance of structural damage to typical newer residential buildings exposed to continuous or frequent intermittent sources of groundborne vibration. For transient vibration events, such as blasting, the damage risk threshold would be 1.0 ips PPV (Caltrans 2013b) at the same type of newer residential structures. For older structures, these guidance thresholds would be more stringent: 0.3 ips PPV for continuous/intermittent vibration sources, and 0.5 ips PPV for transient vibration events. With respect to human annoyance, Caltrans guidance indicates that building occupants exposed to continuous groundborne vibration in the range of 0.2-0.6 ips PPV would find it “unpleasant or “annoying” and thus a likely significant impact. Although these Caltrans guidance thresholds are not regulations, they can serve as quantified standards in the absence of such limits at the local jurisdictional level.

2.3 Local

2.3.1 Noise Ordinance

The City's noise control ordinance (Municipal Code, Chapter 8.32) is wholly adopted from the County of San Diego's regulations relating to the control of noise, excepting therefrom the table set out in Section 36.404 and replacing it with the City's Table 8.32.040 (see Table 2 below). The ordinance legally sets exterior property line noise limits for various land uses in terms of 1-hour L_{eq} value, unless a variance has been applied for (citing mitigation circumstances as applicable) and granted. As specified therein, commercial areas (zone C-3) are restricted in the amount of noise that can legally be generated at the property at the property line to 60 A-weighted decibels (dBA) between 7:00 a.m. and 10:00 p.m. and 55 dBA between 10:00 p.m. and 7:00 a.m. (see Table 2 below). Moreover, in the event that the alleged offensive noise contains music or speech conveying informational content, the 1-hour L_{eq} limit is reduced by 5 dB.

Table 2. City of Vista Exterior Noise Standards

Zone	Applicable Limit (decibels)	Time Period
A-1, E-1, O & OSR R-1B, MHP	50 45	7:00 a.m. to 10:00 p.m. 10:00 p.m. to 7:00 a.m.
R-M	55 50	7:00 a.m. to 10:00 p.m. 10:00 p.m. to 7:00 a.m.
C-1, C-2, O-3, C-T, OP, M-U and Downtown Specific Plan	60 55	7:00 a.m. to 10:00 p.m. 10:00 p.m. to 7:00 a.m.
M-1, I-P, all areas of the Vista Business Park Specific Plan and Specific Plan 14	70	Anytime

Source: City of Vista Municipal Code, Chapter 8.32.

In addition, a person cannot operate construction equipment that exceeds an average sound level of 75 dBA for an 8-hour period, between 7:00 a.m. and 7:00 p.m., when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is being received. Construction equipment cannot be operated between 7:00 p.m. and 7:00 a.m., or on Sundays and holidays.

2.3.2 General Plan Noise Element

The Noise Element of the *City of Vista General Plan 2030* (City of Vista 2011) establishes target maximum noise levels in the City. Table 3 (Table NE-3 of the Noise Element) provides guidance for the acceptability of certain types of developments, which acts as criteria for assessing the compatibility of proposed land uses in corresponding land use designations. Table 3 depicts "normally acceptable," "conditionally acceptable," "normally unacceptable," and "clearly unacceptable" exterior noise levels for those uses and land use designations. The matrix is typically used at the General Plan or zoning levels of approval, as well as for California Environmental Quality Act (CEQA) analysis.

Table 4 (reproducing Table NE-4 of the Noise Element) provides the interior and exterior guidelines for various uses and developments. The noise guidelines function as City policy for new land uses and acceptable noise levels for development of new land uses. In addition, the provisions of the State of California Noise Insulation Standards (California

Administrative Code, Title 24) are enforced to specify that the indoor noise levels for multifamily residential living spaces shall not exceed 45 dB CNEL (or day-night average sound level (L_{dn})) due to the combined effect of all noise sources. The state requires implementation of this indoor standard when the outdoor noise levels exceed 60 dB CNEL (or L_{dn}). Title 24 requires that this standard be applied to all new hotels, motels, apartment houses, and dwellings other than detached single-family dwellings. As a matter of policy, the City also applies this standard to new single-family developments, mixed-use developments, and condominium conversions where appropriate.

Table 3. Noise and Land Use Compatibility Matrix

Vista General Plan Land Use Designations	Uses	Day-Night Noise Level (L_{dn})			
		A	B	C	D
Rural Residential (RR) Open Space Residential (OSR) Low Density (LD) Medium Low Density (MLD) Medium Density (MD)	Residential Single Family	≤ 60	55 - 70	70 - 75	≥ 75
Medium Density (MHD) High Density (HD)	Multiple Family, Duplex, Mobile Home Park	≤ 65	60 - 70	70 - 75	≥ 75
Mixed Use (MU)	Mixed-Use Residential, Commercial, and Office Development	≤ 65	60 - 72.5	72.5 - 80	≥ 80
Commercial Office (CO) Commercial Neighborhood (CN)	Professional and Private Offices, Daycare, Neighborhood-Serving Retail and Restaurants, Board Rooms, Conference Rooms, Theatres, Auditoriums, Concert Halls, Meeting Halls	≤ 65	60 - 72.5	≥ 72.5	-
Civic Activity (CA)	Schools, Parks, Playgrounds, Fire Stations, Courthouses, Libraries, Municipal Storage Yards	≤ 72.5	60 - 72.5	67.5 - 80	≥ 80
Commercial Service (CS) General Commercial (GC)	Community Serving Retail and Restaurants	≤ 70	67.5 - 75	≥ 75	-
Commercial Industrial Service (CIS) Industrial General (IG) Research Light Industrial (RLI)	Manufacturing, Kitchen, Warehousing	≤ 70	67.5 - 75	≥ 75	-
Open Space/Parks (OS)	Golf Courses, Outdoor Spectator Sports, Amusement Parks	≤ 70	67.5 - 75	≥ 75	-

A = Normally Acceptable, B = Conditionally Acceptable, C = Normally Unacceptable, D = Clearly Unacceptable
Source: Based on California Governor's Office of Planning and Research (2003); Modified for the City of Vista

Table 4. Interior and Exterior Noise Guidelines

Land Use	Maximum Noise Level (L_{dn} or CNEL, dBA)	
	Interior [1,2]	Exterior
Residential - Single Family, Multifamily, Duplex	45	65 [3]
Residential - Nursing Homes, Hospitals	45	65 [3]

Table 4. Interior and Exterior Noise Guidelines

Land Use	Maximum Noise Level (L_{dn} or CNEL, dBA)	
	Interior [1,2]	Exterior
Private Offices, Church Sanctuaries, Libraries, Board Rooms, Conference Rooms, Theaters, Auditoriums, Concert Halls, Meeting Halls, etc.	45	-
Schools	45	65 [4]
General Offices, Reception, Clerical, etc.	50	-
Bank Lobby, Retail Store, Restaurant, Typing Pool, etc.	60	-
Manufacturing, Kitchen, Warehousing, etc.	65	-
Parks, Playgrounds, etc.	-	65 [4]
Golf Courses, Outdoor Spectator Sports, Amusement Parks, etc.	-	70 [4]

Notes:

1 Noise standard with windows closed. Mechanical ventilation shall be provided per Uniform Building Code requirements to provide a habitable environment.

2 Indoor environment excluding bathrooms, toilets, closets, and corridors.

3 Outdoor environment limited to rear yard of single-family homes, multifamily patios and balconies (with a depth of 6 feet or more) and common recreation areas.

4 Outdoor environment limited to playground areas, picnic areas, and other areas of frequent human use.

The City's Noise Element outlines general goals, objectives, and relevant noise policies that include the following:

- NE Goal 1: Protect people who live, work, and recreate in the City from excessive transportation noise with an emphasis on protecting residential neighborhoods and other noise-sensitive receptors (i.e., picnic areas, recreation areas, playgrounds, active sports areas, golf courses, parks, residences, motels, hotels, schools, churches, libraries, and hospitals).
  - NE Policy 1.1: Discourage new noise-sensitive land uses from locating, and existing noise-sensitive land uses from expanding, in areas adjacent to roadways where noise levels are 65 dB CNEL or above.
  - NE Policy 1.2: Require California Title 24 building code noise insulation with minimum 25 dB noise reduction for new development where existing/future roadway noise levels are 65 db CNEL or above.
  - NE Policy 1.3: Encourage the use of open and green spaces between noise sensitive land uses and roadways that create noise levels of 65 dB or above.
  - NE Policy 1.4: Require developers to implement noise abatement that meets Caltrans' acoustical criteria if new developments cause increases in traffic volumes that result in roadway or rail noise levels of 65 dB CNEL or above at existing or planned future noise-sensitive receptors.
- NE Goal 2: Protect people who live, work, and recreate in the City from unwarranted and excessive levels of noise, with special emphasis on protecting residential neighborhoods from intrusive noise.
  - NE Policy 2.2: Adopt and apply the Noise and Land Use Compatibility Matrix and the Interior and Exterior Noise Guidelines as guidelines to establish acceptable noise standards for various uses throughout the City.
  - NE Policy 2.3: Require new development to minimize noise impacts upon adjacent uses through site and building design, setbacks, berms, landscaping, and/or other noise abatement techniques.
  - NE Policy 2.5: Require that an acoustical analysis be prepared by a qualified acoustical engineer in instances where noise-sensitive uses are proposed in noise impacted areas.

- NE Policy 2.7: Encourage residential developments within mixed-use developments and located adjacent to commercial or retail and entertainment-related uses to notify potential residents that they may be affected by noise from these uses.

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3 Existing Conditions

SPL measurements were conducted near the project site on July 27, 2022, to quantify and characterize the existing outdoor noise levels. Table 5 provides the location, date, and time at which these baseline noise level measurements were taken. The SPL measurements were performed by an attending Dudek field investigator using a Rion NL-52 sound level meter equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The sound level meter meets the current American National Standards Institute standard for a Type 1 (Precision Grade) sound level meter (SLM). The accuracy of the SLM was verified using a reference sound signal (i.e., field calibrator) before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

Three short-term noise level measurement locations (ST1–ST3) that represent the vicinities of existing sensitive receivers were selected on and near the project site. These locations are depicted as receivers ST1–ST3 on Figure 3, Noise Measurement and Modeling Locations. The L_{eq} and L_{max} noise levels are provided in Table 5. The primary noise sources at the sites identified in Table 5 consisted of traffic along adjacent roadways, distant aircraft, and birdsong. As shown in Table 5, the measured sound levels ranged from approximately 50.3 dBA L_{eq} at ST1 to 66.8 dBA L_{eq} at ST3. Noise measurement data is also included in Appendix A, Baseline Noise Measurement Field Data. These samples of daytime L_{eq} measured at the three representative receptor positions in Table 5 can be interpreted as approximations of CNEL, since evening SPL would likely be 5 dBA less, and nighttime SPL would be 10 dBA less than the daytime values (FTA 2006).

Table 5. Measured Baseline Outdoor Ambient Noise Levels

Site	Location/Address	Date/Time	L_{eq} (dBA)	L_{max} (dBA)
ST1	Eastern property line of proposed project boundary, adjacent to 824 Matagual Dr., Vista, CA 92081	2022-07-27, 12:20 PM to 12:30 PM	51.1	58.2
ST2	Southern property line of proposed project boundary, adjacent to 620 S Melrose Dr., Vista, CA 92081	2022-07-27, 12:45 PM to 12:55 PM	50.3	57.7
ST3	Western property line of proposed project boundary, adjacent to S Melrose Dr.	2022-07-27, 12:00 PM to 12:10 PM	66.8	72.8

Source: Appendix A.
Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); L_{max} = maximum sound level during the measurement interval; dBA = A-weighted decibels; ST = short-term noise measurement locations.

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SOURCE: SANDAG 2019, Open Street Map

DUDEK

0 50 100 Feet

FIGURE 3

Noise Measurement Locations

Vista Melrose

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4 Thresholds of Significance

The following significance criteria are based on Appendix G of the California Environmental Quality Act Guidelines (14 CCR 15000 et seq.) and will be used to determine the significance of potential noise and vibration impacts. Impacts associated with noise and vibration would be significant if the proposed project would result in:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- Generation of excessive groundborne vibration or groundborne noise levels.
- Expose people residing or working in the project area to excessive noise levels (for a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within 2 miles of a public airport or public use airport).

In light of these above significance criteria, this analysis uses the following standards to evaluate potential noise and vibration impacts.

- Construction noise – the City's noise ordinance states noise from construction equipment operation shall not exceed 75 dBA for an eight-hour period, between 7:00 a.m. and 7:00 p.m., when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is being received. It shall be unlawful for any person to operate or cause to be operated, construction equipment on a Sunday or a holiday.
- Off-site project-attributed transportation noise – For purposes for this analysis, a direct roadway noise impact would be considered significant if increases in roadway traffic noise levels attributed to the proposed project were greater than 3 dBA CNEL at an existing noise-sensitive land use.
- Off-site project-attributed stationary noise – For purposes for this analysis, a noise impact would be considered significant if noise from typical operation of heating, ventilation, and air conditioning and other electro-mechanical systems associated with the proposed project exceeded the following:
  - 55 dBA hourly Leq at the property line from 7:00 a.m. to 9:59 p.m., and 50 dBA hourly Leq from 10:00 p.m. to 6:59 a.m.
  - The project line is zoned as Office-Professional (O-P), but the adjoining property parcels to the south and west which are zoned as R-1 and E-1 respectively. At such boundaries of dissimilar zoning, the arithmetic average of the two limits apply, meaning that 50 dBA hourly L_{eq} (i.e., [55+45]/2) would be the nighttime threshold along most of the project's southern and western boundaries.
- Construction vibration – Guidance from Caltrans indicates that a vibration velocity level of 0.2 ips PPV received at a structure would be considered annoying by occupants within (Caltrans 2013b). As for the receiving structure itself, aforementioned Caltrans guidance from Section 2 recommends that a vibration level of 0.3 ips PPV would represent the threshold for building damage risk.

For purposes of disclosure, since current CEQA noise criteria listed above do not consider it, this analysis also evaluates compatibility of on-site traffic noise exposure levels with the City of Vista exterior and interior noise standards of 65 dBA CNEL and 45 dBA CNEL, respectively.

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5 Impact Discussion

Potential noise and vibration impacts attributed to project construction and operation are studied in the following subsections that are categorized by the CEQA Guidelines Appendix G significance for noise.

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Short-Term Construction

Construction noise and vibration are temporary phenomena, with emission levels varying from hour to hour and day to day, depending on the equipment in use, the operations performed, and the distance between the source and receptor. Equipment that would be in use during construction would include, in part, graders, backhoes, rubber-tired dozers, loaders, cranes, forklifts, pavers, rollers, and air compressors. The typical maximum noise levels at a distance of 50 feet from various pieces of construction equipment and activities anticipated for use on the proposed project site are presented in Table 6. Note that the equipment noise levels presented in Table 6 are maximum noise levels. Usually, construction equipment operates in alternating cycles of full power and low power, producing average noise levels over time that are less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time.

Table 6 Typical Construction Equipment Maximum Noise Levels

Equipment Type	Typical Equipment (L_{max}, dBA at 50 Feet)
All Other Equipment > 5 HP	85
Backhoe	78
Compressor (air)	78
Concrete Saw	90
Crane	81
Dozer	82
Excavator	81
Flat Bed Truck	74
Front End Loader	79
Generator	72
Grader	85
Man Lift	75
Paver	77
Roller	80
Scraper	84
Welder / Torch	73

Source: DOT 2006.
Note: L_{max} = maximum sound level; dBA = A-weighted decibels.

Aggregate noise emission from proposed project construction activities, broken down by sequential phase, was predicted at two evaluation distances to the nearest existing noise-sensitive receptor: 1) from the nearest position of the construction site boundary and 2) from the geographic center of the construction site, which serves as the time-averaged location or geographic *acoustical centroid* of active construction equipment for the phase under study. The intent of the former distance is to help evaluate anticipated construction noise from a limited quantity of equipment or vehicle activity expected to be at the boundary for some period of time, which would be most appropriate for phases such as site preparation, grading, and paving. The latter distance is used in a manner similar to the general assessment technique as described in the FTA guidance for construction noise assessment, when the location of individual equipment for a given construction phase is uncertain over some extent of (or the entirety of) the construction site area. In this studied scenario, because of the equipment location uncertainty, all the equipment for a construction phase is assumed to operate—on average—from the acoustical centroid position. Table 7 summarizes these two distances to the apparent closest noise-sensitive receptor for each of the seven sequential construction phases. At the site boundary, this analysis assumes that up to only one piece of equipment (conservatively, the loudest) of each listed type per phase will be involved in the construction activity for up to half of the 8-hour period at this closest distance to the receptor. In other words, at such proximity, the operating equipment cannot "stack" or crowd the vicinity and still operate. For the acoustical centroid case, which intends to be a geographic average position for all equipment during the indicated phase, this analysis assumes that the equipment may be operating up to all 8 hours per day.

Table 7. Estimated Distances between Construction Activities and the Nearest Noise-sensitive Receptors

Construction Phase (and Equipment Types Involved)	Distance from Nearest Noise-Sensitive Receptor to Construction Site Boundary (Feet)	Distance from Nearest Noise-Sensitive Receptor to Acoustical Centroid of Site (Feet)
Demolition (concrete saw/industrial saw, dozer, excavator)	180	290
Site preparation (dozer, tractor, front end loader, backhoe)	12.5	190
Grading (excavator, grader, scraper, track dozer, tractor, front end loader, backhoe)	12.5	190
Utilities (excavator)	50	165
Streets (grader, paver)	100	105
Building construction (crane, forklift, generator, tractor, front end loader, backhoe, welder/torch)	50	165
Paving (paver, paving equipment, roller)	85	165
Architectural coating (air compressor)	50	165

A Microsoft Excel–based noise prediction model emulating and using reference data from the Federal Highway Administration Roadway Construction Noise Model (RCNM) (FHWA 2008) was used to estimate

construction noise levels at the nearest occupied noise-sensitive land use. (Although the RCNM was funded and promulgated by the Federal Highway Administration, it is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are often used for other types of construction.) Input variables for the predictive modeling consist of the equipment type and number of each (e.g., two graders, a loader, a tractor), the duty cycle for each piece of equipment (e.g., percentage of time within a specific time period, such as an hour, when the equipment is expected to operate at full power or capacity and thus make noise at a level comparable to what is presented in Table 6), and the distance from the noise-sensitive receiver. The predictive model also considers how many hours that equipment may be on site and operating (or idling) within an established work shift. Conservatively, no topographical or structural shielding was assumed in the modeling. The RCNM has default duty-cycle values for the various pieces of equipment, which were derived from an extensive study of typical construction activity patterns. Those default duty-cycle values were used for this noise analysis, which is detailed in Appendix B, Construction Noise Modeling Input and Output, and produce the predicted results displayed in Table 8.

Table 8. Predicted Construction Noise Levels per Activity Phase

Construction Phase (and Equipment Types Involved*)	8-Hour L_{eq} at Nearest Noise-Sensitive Receptor to Construction Site Boundary (dBA)	8-Hour L_{eq} at Nearest Noise-Sensitive Receptor to Acoustical Centroid of Site (dBA)
Demolition (*concrete saw/industrial saw*, dozer, excavator)	65.1	67.1
Site preparation (dozer, *tractor*, front end loader, backhoe)	89.0	71.0
Grading (excavator, *grader*, scraper, track dozer, tractor, front end loader, backhoe)	90.0	72.5
Utilities (*excavator*)	73.9	66.0
Streets (*grader*, paver)	69.7	72.9
Building construction (crane, forklift, generator, *tractor*, front end loader, backhoe, welder/torch)	76.9	68.8
Paving (paver, *paving equipment*, roller)	72.8	72.1
Architectural coating (*air compressor*)	70.9	58.8

Notes: L_{eq} = equivalent noise level; dBA = A-weighted decibels. *italicized equipment types are the loudest and used singularly to evaluate noise for the "nearest" assessment scenario.

As presented in Table 8, the estimated construction noise levels are predicted to be as high as 90 dBA L_{eq} over an 8-hour period at the nearest occupied property (as close as 12.5 feet away) when grading activities take place near the southeastern project boundaries. Note that these estimated noise levels at a source-to-receiver distance of 12.5 feet are conservatively high, in that they presume the noted pieces of heavy equipment would each operate, on average at this distance, for a cumulative period of four hours a day. The reality of construction progress on-site would likely be different. By way of example, a grader might make multiple passes on site that are this close to a receiving occupied property; but, for the remaining

time during the day, the grader may be sufficiently farther away and either performing work at a more distant location or simply not operating.

Under the studied conditions, construction activity noise levels associated with site preparation and grading phases are expected to exceed an 8 hour L_{eq} value of 75 dBA L_{eq} and thereby exceed the City's adopted daytime threshold for construction noise exposure at an occupied property. Therefore, the following suggested practices would be incorporated into the project's construction program as mitigation measures (**NOI-1**):

- Administrative controls (e.g., reduce operating time of equipment and/or prohibit usage of equipment type[s] within certain distances).
- Engineering controls (upgrade noise controls, such as install better engine exhaust mufflers).
- Install noise abatement on the site boundary fencing (or within, as practical and appropriate) in the form of sound blankets or comparable temporary barriers (e.g., stacked sheets of plywood supported with framing) to occlude construction noise emission between the site (or specific equipment operation as the situation may define) and offsite noise-sensitive receptor(s) of concern.
- At the outset of a project construction activity, an unattended noise level monitor might be deployed onsite to measure and document that noise exposure levels attributed to project construction activity at adjacent offsite sensitive receptors are in conformance with the 75 dBA 8 hour L_{eq} threshold.

As an example of the noise abatement option for NOI-1 listed above, Appendix B includes a worksheet that exhibits City-compliant noise levels (i.e., less than 75 dBA 8-hour L_{eq}) when an 8-foot tall temporary barrier is positioned to intervene the sound path between the equipment noise source and the receptor position.

Although nearby occupied properties such as residential to the east would be exposed to elevated construction noise levels, the increased noise levels would typically be relatively short term. It is anticipated that construction activities associated with the proposed project would take place only within the hours of 7:00 a.m. and 7:00 p.m. Monday through Saturday, in compliance with the City's noise ordinance.

In summary, construction noise during allowable daytime hours would have the potential to exceed the 75 dbA L_{eq} 8-hour threshold at the adjacent property lines on occasion. Thus, temporary construction-related noise impacts would be considered potentially significant without application of NOI-1 as part of the construction program. With proper implementation of **NOI-1**, anticipated construction noise impact status would remain **less than significant with mitigation**.

Long-Term Operational

Off-Site Traffic Noise Exposure

The proposed project would result in the creation of additional vehicle trips on local arterial roadways (i.e., Melrose Drive), which could result in increased traffic noise levels at adjacent noise-sensitive land uses. Appendix C, Traffic Noise Modeling Input and Output, contains a spreadsheet with traffic volume data (average daily traffic) for Melrose Drive. In particular, the proposed project would create additional traffic along Melrose Drive, which according to the Traffic Impact Assessment prepared for the proposed project (Linscott Law & Greenspan, 2022) would add 340 total average daily trips to adjacent to the project site.

According to Caltrans, a three-dBA change in sound is the beginning at which humans generally notice a barely perceptible change in sound, a five-dBA change is generally readily perceptible, and a 10-dBA increase is perceived by most people as a doubling of the existing noise level (Caltrans 2013a). Due to the existing and proposed urban setting of the project area, a readily perceptible change in noise (five dBA) would be the appropriate threshold to determine significant increases in traffic noise.

Potential noise effects from vehicular traffic were assessed using the Federal Highway Administration's Traffic Noise Model version 2.5 (FHWA 2004). Information used in the model included the roadway geometry, existing (year 2022), and existing plus project traffic volumes and posted traffic speeds. Noise levels were modeled at representative noise-sensitive receivers ST1 through ST4, as shown in Figure 3. The receivers were modeled to be 5 feet above the local ground elevation. The noise model results are summarized in Table 9. Based on results of the model, implementation of the proposed project would not result in readily perceptible increases in traffic noise.

Table 9. Roadway Traffic Noise Modeling Results

Modeled Receiver No.	Existing (2022) Noise Level (dBA CNEL)	Existing with Project Noise Level (dBA CNEL)	Maximum Project-Related Noise Level Increase (dB)
ST1	68.3	68.3	0.0
ST2	69.0	69.2	0.2
ST3	66.5	66.7	0.2

Source: Appendix C.
Notes: dBA = A-weighted decibel; CNEL = community noise equivalent level; dB = decibel.

Table 9 shows that at all three listed representative receivers, the addition of proposed project traffic to the roadway network would result in an increase in the CNEL of less than 3 dB, which is below the discernible level of change for the average healthy human ear. Thus, a less-than-significant impact is expected for proposed project-related off-site traffic noise increases affecting existing residences in the vicinity.

On-site Traffic Interior Noise Exposure

Aside from exposure to aviation traffic noise, current CEQA noise-related guidelines at the state level do not require an assessment of exterior-to-interior noise intrusion, environmental noise exposure to occupants of newly-created project residences, or environmental noise exposure to exterior non-residential uses attributed to the development of the proposed project. Nevertheless, the City's General Plan and the California Building Code requires that interior background noise levels not exceed a CNEL of 45 dB within habitable rooms. Hence, the following predictive analysis of traffic noise exposure at the exteriors of occupied residences and outdoor living areas is provided below.

In addition to the prediction results presented in Table 9, the FHWA TNM software was also used to predict the Horizon-with-project scenario traffic noise levels at multiple on-site exterior areas, as listed in Table 10. These on-site modeled receptor locations, which appear in Appendix C, include representative positions for the exteriors of multiple floors and positions of three of the proposed project building facades. Predicted exterior sound levels presented in Table 11 that are higher than 65 dBA CNEL indicate locations where an

exterior-to-interior noise analysis should be performed for the proximate occupied residential unit. Individual Modeling locations appear in Appendix D.

Table 10. Future Ambient Noise Levels at Residential Facades

Modeled Receptor	Noise Level (A-weighted CNEL)	
	1st Floor	2nd Floor
M	69.7	69.7
M2	62.3	62.4
M3	55.3	58.2
OS–1	52.5	
Dog Park	51.9	

The prediction results from Table 10 indicate that future traffic noise levels would not exceed 70 dBA CNEL. With the 45 dBA CNEL interior background sound level limit, this means the minimum composite sound transmission class (STC) rating for the exterior shell separating the habitable interior space from the outdoor sound level should be at least 25. The composite STC rating for the portion of a building shell that separates an interior space from the outdoors is calculated from the area-dependent contributions of its elements: windows, wall assemblies, and doors.

This study assumes an exterior wall assembly includes: one layer of 5/8" gypsum wallboard (GWB) on the interior-facing side, 2"x4" wood studs, glass fiber batt insulation in the stud cavities, and a dual-layer of 5/8" GWB on the exterior-facing side. Acoustical transmission loss (TL) data is available on this representative assembly (Halliwell 1998) and is used as part of estimating the composite STC ratings reported herein. For purposes of this analysis, the dual-layer GWB on the exterior surface approximates the mass and solidity of what may be other approved material options as determined by the Project architect, such as cement fiber siding panels, brick masonry veneer, or cement plaster attached to layers of fiberglass mat sheathing and plywood sheathing.

With respect to windows, dual-pane glazing systems are commonplace in the construction of modern homes and characterized by two 1/8"-thick glass panes separated by a 3/8" wide airgap. Viracon data indicates that such glazing should demonstrate, on its own and assuming no air leaks or gaps, an STC rating of 31 (Viracon 2019). Similarly, panels of sliding doors are typically constructed with a similar assembly so as to help maintain expected levels of thermal insulation; hence, these two would reasonably feature the same STC rating on their own (and when fully closed) as a sound-insulating element of a larger façade area to be evaluated for net STC performance.

Using the above wall and window component assumptions, Table 11 summarizes the calculated noise levels after applying the STC ratings for a set of sample occupied room facades that are anticipated to be exposed to predicted exterior noise levels greater than 60 dBA CNEL. Details of these calculations that account for the façade surface area and its composite areas of exterior wall assembly and windows appear in Appendix D.

Clearly, an open window greatly compromises the sound insulation performance of the façade wall assembly, as presented for the sample units appearing in Table 11. However, when such windows and doors are closed,

all facades are anticipated to exhibit a predicted STC rating of at least 35, and thus would provide sufficient exterior-to-interior sound insulation from outdoor traffic noise to yield interior background sound levels that are less than 45 dBA CNEL and thus compliant with the City and state standards. Recall that none of the predicted exterior traffic noise levels at the studied receptor locations exceeded 70 dBA CNEL; thus, the STC rating value (for closed windows and doors) subtracted from these exterior noise values must result in interior noise levels of less than 45 dBA CNEL (e.g., 70 – 35 = 35 dBA CNEL, which is less than 45). This apparent requirement for closed windows and doors means that the design of these habitable rooms should feature mechanical ventilation or an air-conditioning system to provide interior comfort of the occupants. Detailed transmission loss data is included in Appendix D, Transmission Loss Predictions. Thus, the City's threshold of 45 dB CNEL within habitable rooms would not be exceeded and thus demonstrates expected project compliance with this standard.

Table 11. Predicted Net Sound Transmission Class of Occupied Room façade

Occupied Room Facade	Predicted Net Sound Transmission Class (STC) for Scenario	
	Closed Window(s) and Door *	Open Window(s) & Closed French Door*
1st floor living room w/ porch, western facade	35	6
2nd floor living room, western Façade	35	6

n/a = not applicable
* Doors are only modeled for scenarios that contain the balcony door.

Onsite Open Spaces

As analyzed herein, shared outdoor project spaces such as "OS-1" and the Dog Park are expected to experience noise levels that are compliant with the City's General Plan Noise Element guidance of 65 dBA CNEL for "parks" and "playgrounds". For residential unit yards that may be used as outdoor spaces, and if sufficiently proximate to roadway traffic noise exposures where predicted exterior noise levels potentially exceed 65 dBA CNEL, feasible noise reduction techniques should be analyzed and incorporated to yield compliance with this standard. With the implementation of mitigation measure **NOI-2**, the resultant exterior noise levels would meet the City's exterior noise expectation of 65 dBA CNEL.

NOI-2**:** Where exterior noise levels are predicted to exceed 65 dBA CNEL at useable open space areas, the project should install noise-reducing features external to or upon the useable open space areas (or within, as practical and appropriate) in the form of sound walls, fencing, landscape berms, or similarly performing barriers of at least 6 feet in height to occlude incoming roadway traffic noise.

Stationary Noise Sources

The incorporation of new multi-family homes and a mix of open space uses attributed to development of the proposed project will add a variety of noise-producing electro-mechanical equipment that include those presented and discussed in the following paragraphs. Most of these noise-producing equipment or sound sources would be considered stationary, or limited in mobility to a defined area. Using a Microsoft Excel–

based outdoor sound propagation prediction model, project-attributed operational noise at nearby community receptors was predicted using several assumptions:

- Treatment of exposed at-grade air-cooled condensing units as point-type sound emission sources; and,
- Point-source sound propagation (i.e., 6 dB per doubling of distance) that conservatively ignores acoustical absorption from atmospheric and ground surface effects.

Please see Appendix E for quantitative details of the inputs and outputs that form the basis of the following assessment presentations.

Residential Unit Heating, Ventilation, and Air Conditioning Noise

For purposes of this analysis, each of the new occupied residential units would be expected to feature a split-system type air-conditioning unit, with an air-cooled refrigeration (2-ton capacity) condenser unit. Assuming each condenser unit has an SPL of 68 dBA at 3 feet based on available data from a likely manufacturer (Carrier 2012), and the units would generally be installed near the apparent "front porch" areas. Therefore, the closest existing noise-sensitive residential receptor to the west of the proposed project's eastern unit would be as close as 50 horizontal feet to the nearest of these condenser units. The predicted sound emission level from the combination of all 34 operating condenser units as received by this offsite single-family home would be 45 dBA L_{eq} and thus be compliant with the City's nighttime threshold of 50 dBA hourly L_{eq}. Under such conditions, the operation of residential air-conditioning units would result in a **less-than-significant noise impact**.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction activities may expose persons to excessive groundborne vibration, causing a potentially significant impact. Caltrans has collected groundborne vibration information related to construction activities (Caltrans 2013b). Information from Caltrans indicates that continuous vibrations with a PPV of approximately 0.2 ips is considered "annoying." For context, heavier pieces of construction equipment, such as a bulldozer that may be expected on the project site, have peak particle velocities of approximately 0.089 ips or less at a reference distance of 25 feet (DOT 2006).

Groundborne vibration attenuates rapidly—even over short distances. And when groundborne vibration encounters a building foundation, a coupling loss occurs depending on its mass and design. For typical wood-framed houses, like those near the proposed project, this coupling loss is expected to be 5 vibration velocity decibels (VdB) according to FTA guidance (FTA 2006).

The attenuation of groundborne vibration as it propagates from source to receptor through intervening soils and rock strata can be estimated with expressions found in FTA and Caltrans guidance. By way of example, for a front-end loader operating onsite and as close as the eastern project boundary (that is 12.5 feet from the nearest receiving sensitive land use) the estimated groundborne vibration velocity level would be 0.25 ips as received by the residential structure, and would be compliant with the 0.3 ips PPV threshold per Caltrans guidance with respect to building damage risk.

Then, the foundation of this residential structure would, per the coupling loss, cause a reduction in the vibration as received by the building occupant. Hence, instead of the 96 VdB received at the interface of the

structure foundation and the surrounding soil/strata, the occupant would experience 91 VdB (i.e., 5 VdB less) that equates to a PPV level of 0.13 ips that is less than the Caltrans guidance threshold for annoyance. Therefore, vibration-induced annoyance to occupants of nearby existing homes would be considered less than significant.

Once operational, the proposed project would not be expected to feature major producers of groundborne vibration. Anticipated mechanical systems like heating, ventilation, and air-conditioning units are designed and manufactured to feature rotating (fans, motors) and reciprocating (compressors) components that are well-balanced with isolated vibration within or external to the equipment casings. On this basis, vibration due to proposed project operation should be **less than significant**.

C) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

There are no private airstrips within the vicinity of the project site. The closest airport to the proposed project site is the McClellan-Palomar Airport, approximately 5 miles southwest of the site and would therefore not expose people residing or working in the project area to excessive noise levels. Impacts would be **less than significant.**

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6 Summary of Findings

This noise report was conducted for the proposed project. The results indicate that potential impacts during construction would **be less than significant**; nevertheless, construction best practices that incorporate noise reduction techniques would be incorporated into the project construction process. Noise impacts due to operation of the proposed project (including traffic noise) would be **less than significant**, with mitigation measures NOI-1 and NOI-2 offered to reduce construction noise and post-construction exterior noise intrusion to project outdoor spaces, respectively. No noise and vibration mitigation measures are anticipated at this time.

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Appendix A

Baseline Noise Measurement Field Data

FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1441	
Project Name	*Vista Melrose*
Observer(s)	*Connor Burke*
Date	*2022-07-27*

Meteorological Conditions	
Temp (F)	*77*
Humidity % (R.H.)	*56*
Wind	*Light*
Wind Speed (MPH)	*5*
Wind Direction	*East*
Sky	*Sunny*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
GPS Assistance Used	*No*
Pre-Test (dBA SPL)	*94*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Monitoring	
Record #	*1*
Site ID	*ST3*
Site Location Lat/Long	*33.187894, -117.252974*
Begin (Time)	*12:00:00*
End (Time)	*12:10:00*
Leq	*66.8*
Lmax	*72.8*
Lmin	*54.6*
Other Lx?	*L90, L50, L10*
L90	*55.6*
L50	*66.2*
L10	*70.3*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	

Monitoring

Record #	*2*
Site ID	*ST1*
Site Location Lat/Long	*33.188002, -117.251963*
Begin (Time)	*12:20:00*
End (Time)	*12:30:00*
Leq	*51.1*
Lmax	*58.2*
Lmin	*44.9*
Other Lx?	*L90, L50, L10*
L90	*45.5*
L50	*48.8*
L10	*54.5*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Distant traffic*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	

Monitoring

Record #	*3*
Site ID	*ST2*
Site Location Lat/Long	*33.186459, -117.252550*
Begin (Time)	*12:45:00*
End (Time)	*12:55:00*
Leq	*50.3*
Lmax	*57.7*
Lmin	*43.9*
Other Lx?	*L90, L50, L10*
L90	*45.2*
L50	*49.6*
L10	*52.8*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Distant traffic*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Traffic*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo

Appendix B

Construction Noise Modeling Input and Output

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per City noise ordinance = 75
allowable hours over which Leq is to be averaged = 8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demolition	concrete saw	1	20	90	Concrete/Industrial Saws	180	0.1		75.1	4	240	65	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	0	40	82		180	0.1		67.1	4	240	0	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	0	40	81		180	0.1		66.1	4	240	0	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Demolition Phase:			**65.1**																
Site Preparation	dozer	0	40	82		12.5	0.1		94.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Tractor	1	40	84		12.5	0.1		96.0	4	240	89	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	0	40	79		12.5	0.1		91.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	0	40	78		12.5	0.1		90.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Site Preparation Phase:			**89.1**																
Grading	excavator	0	40	81		12.5	0.1		93.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	grader	1	40	85		12.5	0.1		97.0	4	240	90	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	scraper	0	40	84		12.5	0.1		96.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	0	40	82	track dozers	12.5	0.1		94.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	0	40	84		12.5	0.1		96.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	0	40	79		12.5	0.1		91.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	0	40	78		12.5	0.1		90.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Grading Phase:			**90.0**																
Utilities	excavator	1	40	81		50	0.1		80.9	4	240	74	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Utilities Phase:			**73.9**																
Streets	grader	1	40	85		100	0.1		76.7	4	240	70	5	5	0	50	50	100	50.2	50.2	100.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	paver	0	50	77		100	0.1		68.7	4	240	0	5	5	0	50	50	100	50.2	50.2	100.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Streets Phase:			**69.7**																
Building Construction	crane	0	16	81		50	0.1		80.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	man lift	0	20	75	forklift	50	0.1		74.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	generator	0	50	72		50	0.1		71.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	1	40	84		50	0.1		83.9	4	240	77	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	0	40	79		50	0.1		78.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	0	40	78		50	0.1		77.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	welder / torch	0	40	73		50	0.1		72.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Building Construction Phase:			**76.9**																

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per City noise ordinance = 75
allowable hours over which Leq is to be averaged = 8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demolition	concrete saw	1	20	90	Concrete/Industrial Saws	180	0.1		75.1	4	240	65	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	0	40	82		180	0.1		67.1	4	240	0	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	0	40	81		180	0.1		66.1	4	240	0	5	5	0	90	90	180	90.1	90.1	180.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Demolition Phase:			**65.1**																
Site Preparation	dozer	0	40	82		12.5	0.1		94.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Tractor	1	40	84		12.5	15.2		80.8	4	240	74	5	5	8	6.25	6.25	12.5	6.9	6.9	12.5	1.37	14.3	13.0	5.0	0.5	0.7	15.2
	front end loader	0	40	79		12.5	0.1		91.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	0	40	78		12.5	0.1		90.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Site Preparation Phase:			**73.8**																
Grading	excavator	0	40	81		12.5	0.1		93.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	grader	1	40	85		12.5	15.2		81.8	4	240	75	5	5	8	6.25	6.25	12.5	6.9	6.9	12.5	1.37	14.3	13.0	5.0	0.5	0.7	15.2
	scraper	0	40	84		12.5	0.1		96.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	0	40	82	track dozers	12.5	0.1		94.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	0	40	84		12.5	0.1		96.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	0	40	79		12.5	0.1		91.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	0	40	78		12.5	0.1		90.0	4	240	0	5	5	0	6.25	6.25	12.5	8.0	8.0	12.5	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Grading Phase:			**74.8**																
Utilities	excavator	1	40	81		50	0.1		80.9	4	240	74	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Utilities Phase:			**73.9**																
Streets	grader	1	40	85		100	0.1		76.7	4	240	70	5	5	0	50	50	100	50.2	50.2	100.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	paver	0	50	77		100	0.1		68.7	4	240	0	5	5	0	50	50	100	50.2	50.2	100.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Streets Phase:			**69.7**																
Building Construction	crane	0	16	81		50	0.1		80.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	man lift	0	20	75	forklift	50	0.1		74.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	generator	0	50	72		50	0.1		71.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	1	40	84		50	8.6		75.3	4	240	68	5	5	8	25	25	50	25.2	25.2	50.0	0.36	8.6	13.0	5.0	0.5	0.7	8.6
	front end loader	0	40	79		50	0.1		78.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	0	40	78		50	0.1		77.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	welder / torch	0	40	73		50	0.1		72.9	4	240	0	5	5	0	25	25	50	25.5	25.5	50.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Building Construction Phase:			**68.3**																

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per City noise ordinance = 75
allowable hours over which Leq is to be averaged = 8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demolition	concrete saw	1	20	90	Concrete/Industrial Saws	290	0.1		70.3	8	480	63	5	5	0	145	145	290	145.1	145.1	290.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	2	40	82		290	0.1		62.3	8	480	61	5	5	0	145	145	290	145.1	145.1	290.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	3	40	81		290	0.1		61.3	8	480	62	5	5	0	145	145	290	145.1	145.1	290.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Demolition Phase:			**67.1**																
Site Preparation	dozer	3	40	82		190	0.1		66.5	8	480	67	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Tractor	2	40	84		190	0.1		68.5	8	480	68	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	1	40	79		190	0.1		63.5	8	480	60	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	1	40	78		190	0.1		62.5	8	480	59	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Site Preparation Phase:			**71.0**																
Grading	excavator	1	40	81		190	0.1		65.5	8	480	62	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	grader	2	40	85		190	0.1		69.5	8	480	69	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	scraper	1	40	84		190	0.1		68.5	8	480	65	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	1	40	82	track dozers	190	0.1		66.5	8	480	63	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	1	40	84		190	0.1		68.5	8	480	65	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	1	40	79		190	0.1		63.5	8	480	60	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Backhoe	1	40	78		190	0.1		62.5	8	480	59	5	5	0	95	95	190	95.1	95.1	190.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Grading Phase:			**72.5**																
Utilities	excavator	2	40	81		165	0.1		67.0	8	480	66	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Utilities Phase:			**66.0**																
Streets	grader	1	40	85		105	0.1		76.1	8	480	72	5	5	0	52.5	52.5	105	52.7	52.7	105.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	paver	1	50	77		105	0.1		68.1	8	480	65	5	5	0	52.5	52.5	105	52.7	52.7	105.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Streets Phase:			**72.9**																
Building Construction	crane	1	16	81		165	0.1		67.0	7	420	58	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	man lift	3	20	75	forklift	165	0.1		61.0	8	480	59	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	generator	1	50	72		165	0.1		58.0	8	480	55	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	tractor	1	40	84		165	0.1		70.0	7	420	65	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	front end loader	1	40	79		165	0.1		65.0	7	420	60	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	1	40	78		165	0.1		64.0	7	420	59	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	welder / torch	1	40	73		165	0.1		59.0	8	480	55	5	5	0	82.5	82.5	165	82.7	82.7	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
									Total for Building Construction Phase:			**68.8**																

Appendix C

Traffic Noise Modeling Input and Output

Dudek 28 September 2022
CB TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Melrose south	45.0	point1	1	6,254,604.0	2,013,833.4	0.00				Average	
		point2	2	6,254,625.0	2,013,655.0	0.00				Average	
		point3	3	6,254,648.5	2,013,470.9	0.00					
Melrose North	45.0	point9	9	6,254,700.0	2,012,645.8	0.00				Average	
		point10	10	6,254,683.5	2,012,745.8	0.00				Average	
		point11	11	6,254,668.5	2,012,875.4	0.00				Average	
		point12	12	6,254,641.5	2,013,088.5	0.00				Average	
		point13	13	6,254,619.0	2,013,299.5	0.00				Average	
		point14	14	6,254,604.0	2,013,472.4	0.00					
Matagual Drive	35.0	point16	16	6,255,415.5	2,013,720.2	0.00				Average	
		point17	17	6,255,397.5	2,013,683.1	0.00				Average	
		point18	18	6,255,373.5	2,013,644.8	0.00				Average	
		point19	19	6,255,354.5	2,013,622.6	0.00				Average	
		point20	20	6,255,324.5	2,013,599.5	0.00				Average	
		point21	21	6,255,258.0	2,013,573.2	0.00				Average	
		point22	22	6,255,187.5	2,013,566.0	0.00				Average	
		point23	23	6,255,060.0	2,013,546.0	0.00				Average	
		point24	24	6,254,837.0	2,013,506.0	0.00				Average	
		point25	25	6,254,677.0	2,013,480.8	0.00					
Melrose North-2	45.0	point26	26	6,254,604.0	2,013,472.4	0.00				Average	
		point15	15	6,254,561.5	2,013,820.8	0.00					
Melrose south-2	45.0	point27	27	6,254,648.5	2,013,470.9	0.00				Average	
		point4	4	6,254,652.5	2,013,429.6	0.00				Average	
		point5	5	6,254,677.0	2,013,238.9	0.00				Average	
		point6	6	6,254,698.0	2,013,010.2	0.00				Average	

	point7	7	6,254,717.5	2,012,802.4	0.00	Average
	point8	8	6,254,742.5	2,012,646.4	0.00	

Dudek **28 September 2022**
CB **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **Vista Melrose**
RUN: **Existing**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Melrose south	point1	1	1623	40	33	40	16	40	0	0	0	0
	point2	2	1623	40	33	40	16	40	0	0	0	0
	point3	3										
Melrose North	point9	9	1599	40	32	40	16	40	0	0	0	0
	point10	10	1599	40	32	40	16	40	0	0	0	0
	point11	11	1599	40	32	40	16	40	0	0	0	0
	point12	12	1599	40	32	40	16	40	0	0	0	0
	point13	13	1599	40	32	40	16	40	0	0	0	0
	point14	14										
Matagual Drive	point16	16	0	0	0	0	0	0	0	0	0	0
	point17	17	0	0	0	0	0	0	0	0	0	0
	point18	18	0	0	0	0	0	0	0	0	0	0
	point19	19	0	0	0	0	0	0	0	0	0	0
	point20	20	0	0	0	0	0	0	0	0	0	0
	point21	21	0	0	0	0	0	0	0	0	0	0
	point22	22	0	0	0	0	0	0	0	0	0	0
	point23	23	0	0	0	0	0	0	0	0	0	0
	point24	24	0	0	0	0	0	0	0	0	0	0
	point25	25										
Melrose North-2	point26	26	1623	40	33	40	16	40	0	0	0	0
	point15	15										
Melrose south-2	point27	27	1599	40	32	40	16	40	0	0	0	0
	point4	4	1599	40	32	40	16	40	0	0	0	0

	point5	5	1599	40	32	40	16	40	0	0	0	0
	point6	6	1599	40	32	40	16	40	0	0	0	0
	point7	7	1599	40	32	40	16	40	0	0	0	0
	point8	8										

Dudek 28 September 2022
CB TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	6,255,162.5	2,013,395.5	0.00	4.92	51.10	66	10.0	8.0	Y
ST2	2	1	6,255,014.5	2,012,889.8	0.00	4.92	50.30	66	10.0	8.0	Y
ST3	3	1	6,254,710.5	2,013,256.0	0.00	4.92	66.80	66	10.0	8.0	Y

Dudek
CB
28 September 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type	With Barrier	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	51.1	52.6	66	1.5	10	----	52.6	0.0	8	-8.0
ST2	2	1	50.3	56.6	66	6.3	10	----	56.6	0.0	8	-8.0
ST3	3	1	66.8	71.0	66	4.2	10	Snd Lvl	71.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	3	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Dudek 28 September 2022
CB TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing + Project

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Melrose south	45.0	point1	1	6,254,604.0	2,013,833.4	0.00				Average	
		point2	2	6,254,618.0	2,013,710.0	0.00				Average	
		point3	3	6,254,647.5	2,013,479.1	0.00					
Melrose North	45.0	point9	9	6,254,700.0	2,012,645.8	0.00				Average	
		point10	10	6,254,683.5	2,012,745.8	0.00				Average	
		point11	11	6,254,668.5	2,012,875.4	0.00				Average	
		point12	12	6,254,641.5	2,013,088.5	0.00				Average	
		point13	13	6,254,619.0	2,013,299.5	0.00				Average	
		point14	14	6,254,606.0	2,013,471.4	0.00					
Matagual Drive	35.0	point16	16	6,255,415.5	2,013,720.2	0.00				Average	
		point17	17	6,255,397.5	2,013,683.1	0.00				Average	
		point18	18	6,255,373.5	2,013,644.8	0.00				Average	
		point19	19	6,255,354.5	2,013,622.6	0.00				Average	
		point20	20	6,255,324.5	2,013,599.5	0.00				Average	
		point21	21	6,255,258.0	2,013,573.2	0.00				Average	
		point22	22	6,255,187.5	2,013,566.0	0.00				Average	
		point23	23	6,255,060.0	2,013,546.0	0.00				Average	
		point24	24	6,254,837.0	2,013,506.0	0.00				Average	
		point25	25	6,254,677.0	2,013,480.8	0.00					
Melrose south-2	45.0	point26	26	6,254,647.5	2,013,479.1	0.00				Average	
		point4	4	6,254,652.5	2,013,429.6	0.00				Average	
		point5	5	6,254,677.0	2,013,238.9	0.00				Average	
		point6	6	6,254,698.0	2,013,010.2	0.00				Average	
		point7	7	6,254,717.5	2,012,802.4	0.00				Average	
		point8	8	6,254,742.5	2,012,646.4	0.00					

Melrose North-2	45.0	point27	27	6,254,606.0	2,013,471.4	0.00	Average
		point15	15	6,254,561.5	2,013,820.8	0.00	

Dudek **28 September 2022**
CB **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **Vista Melrose**
RUN: **Existing + Project**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Melrose south	point1	1	1633	40	33	40	16	40	0	0	0	0
	point2	2	1633	40	33	40	16	40	0	0	0	0
	point3	3										
Melrose North	point9	9	1604	40	33	40	16	40	0	0	0	0
	point10	10	1604	40	33	40	16	40	0	0	0	0
	point11	11	1604	40	33	40	16	40	0	0	0	0
	point12	12	1604	40	33	40	16	40	0	0	0	0
	point13	13	1604	40	33	40	16	40	0	0	0	0
	point14	14										
Matagual Drive	point16	16	0	0	0	0	0	0	0	0	0	0
	point17	17	0	0	0	0	0	0	0	0	0	0
	point18	18	0	0	0	0	0	0	0	0	0	0
	point19	19	0	0	0	0	0	0	0	0	0	0
	point20	20	0	0	0	0	0	0	0	0	0	0
	point21	21	0	0	0	0	0	0	0	0	0	0
	point22	22	0	0	0	0	0	0	0	0	0	0
	point23	23	0	0	0	0	0	0	0	0	0	0
	point24	24	0	0	0	0	0	0	0	0	0	0
	point25	25										
Melrose south-2	point26	26	1604	40	33	40	16	40	0	0	0	0
	point4	4	1604	40	33	40	16	40	0	0	0	0
	point5	5	1604	40	33	40	16	40	0	0	0	0
	point6	6	1604	40	33	40	16	40	0	0	0	0

	point7	7	1604	40	33	40	16	40	0	0	0	0
	point8	8										
Melrose North-2	point27	27	1633	40	33	40	16	40	0	0	0	0
	point15	15										

Dudek 28 September 2022
CB TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing + Project

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	6,255,162.5	2,013,395.5	0.00	4.92	51.10	66	10.0	8.0	Y
ST2	2	1	6,255,014.5	2,012,889.8	0.00	4.92	50.30	66	10.0	8.0	Y
ST3	3	1	6,254,710.5	2,013,256.0	0.00	4.92	66.80	66	10.0	8.0	Y
M1-1	5	1	6,254,715.0	2,013,318.6	0.00	4.92	0.00	66	10.0	8.0	Y
M1-2	6	1	6,254,715.0	2,013,318.6	0.00	14.92	0.00	66	10.0	8.0	Y
M2-1	7	1	6,254,787.5	2,013,434.2	0.00	4.92	0.00	66	10.0	8.0	Y
M2-2	8	1	6,254,787.5	2,013,434.2	0.00	14.92	0.00	66	10.0	8.0	Y
M3-1	9	1	6,254,915.5	2,013,450.8	0.00	4.92	0.00	66	10.0	8.0	Y
M3-2	10	1	6,254,915.5	2,013,450.8	0.00	14.92	0.00	66	10.0	8.0	Y
Dog Park	12	1	6,255,041.5	2,013,260.5	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	14	1	6,255,037.0	2,013,309.2	0.00	4.92	0.00	66	10.0	8.0	Y

Dudek 28 September 2022
CB TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing + Project

Barrier									Points											
Name	Type	Height		If Wall	If Berm		Run:Rise	Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top		$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,254,736.5	2,013,377.4	0.00	20.00	0.00	0	0		
									point2	2	6,254,733.5	2,013,388.8	0.00	20.00	0.00	0	0		
									point3	3	6,254,742.0	2,013,390.2	0.00	20.00	0.00	0	0		
									point4	4	6,254,744.5	2,013,381.5	0.00	20.00	0.00	0	0		
									point5	5	6,254,763.0	2,013,386.2	0.00	20.00	0.00	0	0		
									point6	6	6,254,755.5	2,013,426.5	0.00	20.00	0.00	0	0		
									point7	7	6,254,729.5	2,013,422.2	0.00	20.00	0.00	0	0		
									point8	8	6,254,731.0	2,013,415.0	0.00	20.00	0.00	0	0		
									point9	9	6,254,721.0	2,013,413.2	0.00	20.00	0.00	0	0		
									point10	10	6,254,728.0	2,013,373.9	0.00	20.00					
Barrier2	W	0.00	99.99	0.00				0.00	point11	11	6,254,804.5	2,013,433.6	0.00	20.00	0.00	0	0		
									point12	12	6,254,811.5	2,013,393.4	0.00	20.00	0.00	0	0		
									point13	13	6,254,774.0	2,013,387.5	0.00	20.00	0.00	0	0		
									point14	14	6,254,768.5	2,013,419.0	0.00	20.00	0.00	0	0		
									point15	15	6,254,780.0	2,013,421.1	0.00	20.00	0.00	0	0		
									point16	16	6,254,777.5	2,013,430.0	0.00	20.00	0.00	0	0		
									point17	17	6,254,804.5	2,013,433.6	0.00	20.00					
Barrier3	W	0.00	99.99	0.00				0.00	point18	18	6,254,811.5	2,013,435.0	0.00	20.00	0.00	0	0		
									point19	19	6,254,819.5	2,013,393.2	0.00	20.00	0.00	0	0		
									point20	20	6,254,855.0	2,013,398.4	0.00	20.00	0.00	0	0		
									point21	21	6,254,850.0	2,013,432.6	0.00	20.00	0.00	0	0		
									point22	22	6,254,840.0	2,013,432.1	0.00	20.00	0.00	0	0		
									point23	23	6,254,839.0	2,013,438.2	0.00	20.00	0.00	0	0		
									point24	24	6,254,811.5	2,013,435.0	0.00	20.00					
Barrier4	W	0.00	99.99	0.00				0.00	point25	25	6,254,861.0	2,013,441.0	0.00	20.00	0.00	0	0		
									point26	26	6,254,864.5	2,013,401.9	0.00	20.00	0.00	0	0		
									point27	27	6,254,899.5	2,013,405.9	0.00	20.00	0.00	0	0		
									point28	28	6,254,895.5	2,013,438.5	0.00	20.00	0.00	0	0		
									point29	29	6,254,884.5	2,013,436.6	0.00	20.00	0.00	0	0		
									point30	30	6,254,884.0	2,013,444.0	0.00	20.00	0.00	0	0		
									point31	31	6,254,861.0	2,013,441.0	0.00	20.00					
Barrier5	W	0.00	99.99	0.00				0.00	point32	32	6,254,903.0	2,013,446.4	0.00	20.00	0.00	0	0		
									point33	33	6,254,910.0	2,013,407.5	0.00	20.00	0.00	0	0		
									point34	34	6,254,944.5	2,013,414.8	0.00	20.00	0.00	0	0		
									point35	35	6,254,940.0	2,013,446.9	0.00	20.00	0.00	0	0		

					point36	36	6,254,930.0	2,013,444.9	0.00	20.00	0.00	0	0		
					point37	37	6,254,929.5	2,013,451.2	0.00	20.00	0.00	0	0		
					point38	38	6,254,903.0	2,013,446.4	0.00	20.00					
Barrier6	W	0.00	99.99	0.00	0.00	point39	39	6,254,957.0	2,013,413.6	0.00	20.00	0.00	0	0		
						point40	40	6,254,993.0	2,013,419.5	0.00	20.00	0.00	0	0		
						point41	41	6,254,986.0	2,013,453.4	0.00	20.00	0.00	0	0		
						point42	42	6,254,976.5	2,013,451.4	0.00	20.00	0.00	0	0		
						point43	43	6,254,974.5	2,013,455.8	0.00	20.00	0.00	0	0		
						point44	44	6,254,952.0	2,013,451.8	0.00	20.00	0.00	0	0		
						point45	45	6,254,957.0	2,013,413.6	0.00	20.00					
Barrier7	W	0.00	99.99	0.00	0.00	point46	46	6,254,994.5	2,013,460.6	0.00	20.00	0.00	0	0		
						point47	47	6,255,003.0	2,013,422.2	0.00	20.00	0.00	0	0		
						point48	48	6,255,037.0	2,013,428.8	0.00	20.00	0.00	0	0		
						point49	49	6,255,033.0	2,013,461.0	0.00	20.00	0.00	0	0		
						point50	50	6,255,021.0	2,013,457.6	0.00	20.00	0.00	0	0		
						point51	51	6,255,018.5	2,013,465.6	0.00	20.00	0.00	0	0		
						point52	52	6,254,994.5	2,013,460.6	0.00	20.00					
Barrier8	W	0.00	99.99	0.00	0.00	point53	53	6,254,715.5	2,013,332.9	0.00	20.00	0.00	0	0		
						point54	54	6,254,717.5	2,013,308.0	0.00	20.00	0.00	0	0		
						point55	55	6,254,725.0	2,013,307.9	0.00	20.00	0.00	0	0		
						point56	56	6,254,725.5	2,013,297.2	0.00	20.00	0.00	0	0		
						point57	57	6,254,762.0	2,013,301.1	0.00	20.00	0.00	0	0		
						point58	58	6,254,761.0	2,013,311.8	0.00	20.00	0.00	0	0		
						point59	59	6,254,752.5	2,013,311.1	0.00	20.00	0.00	0	0		
						point60	60	6,254,751.5	2,013,316.8	0.00	20.00	0.00	0	0		
						point61	61	6,254,758.5	2,013,316.8	0.00	20.00	0.00	0	0		
						point62	62	6,254,756.5	2,013,337.4	0.00	20.00	0.00	0	0		
						point63	63	6,254,715.5	2,013,332.9	0.00	20.00					
Barrier9	W	0.00	99.99	0.00	0.00	point64	64	6,254,720.5	2,013,286.0	0.00	20.00	0.00	0	0		
						point65	65	6,254,722.0	2,013,262.8	0.00	20.00	0.00	0	0		
						point66	66	6,254,729.5	2,013,263.2	0.00	20.00	0.00	0	0		
						point67	67	6,254,729.5	2,013,253.4	0.00	20.00	0.00	0	0		
						point68	68	6,254,764.0	2,013,255.9	0.00	20.00	0.00	0	0		
						point69	69	6,254,759.5	2,013,289.1	0.00	20.00	0.00	0	0		
						point70	70	6,254,720.5	2,013,286.0	0.00	20.00					
Barrier10	W	0.00	99.99	0.00	0.00	point71	71	6,254,725.0	2,013,244.5	0.00	20.00	0.00	0	0		
						point72	72	6,254,727.5	2,013,218.1	0.00	20.00	0.00	0	0		
						point73	73	6,254,735.5	2,013,219.5	0.00	20.00	0.00	0	0		
						point74	74	6,254,736.0	2,013,208.2	0.00	20.00	0.00	0	0		
						point75	75	6,254,769.5	2,013,212.9	0.00	20.00	0.00	0	0		
						point76	76	6,254,767.5	2,013,248.2	0.00	20.00	0.00	0	0		
						point77	77	6,254,725.0	2,013,244.5	0.00	20.00					
Barrier11	W	0.00	99.99	0.00	0.00	point78	78	6,254,731.5	2,013,171.8	0.00	20.00	0.00	0	0		
						point79	79	6,254,739.5	2,013,172.6	0.00	20.00	0.00	0	0		
						point80	80	6,254,740.0	2,013,161.1	0.00	20.00	0.00	0	0		
						point81	81	6,254,775.5	2,013,165.5	0.00	20.00	0.00	0	0		
						point82	82	6,254,771.5	2,013,200.2	0.00	20.00	0.00	0	0		
						point84	84	6,254,730.0	2,013,197.4	0.00	20.00	0.00	0	0		
						point83	83	6,254,731.5	2,013,171.8	0.00	20.00					

Dudek
CB
28 September 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Vista Melrose
RUN: Existing + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc		LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	51.1	49.0	66	-2.1	10	----	49.0	0.0	8	-8.0
ST2	2	1	50.3	55.9	66	5.6	10	----	55.9	0.0	8	-8.0
ST3	3	1	66.8	71.0	66	4.2	10	Snd Lvl	71.0	0.0	8	-8.0
M1-1	5	1	0.0	69.7	66	69.7	10	Snd Lvl	69.7	0.0	8	-8.0
M1-2	6	1	0.0	69.7	66	69.7	10	Snd Lvl	69.7	0.0	8	-8.0
M2-1	7	1	0.0	62.3	66	62.3	10	----	62.3	0.0	8	-8.0
M2-2	8	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
M3-1	9	1	0.0	55.3	66	55.3	10	----	55.3	0.0	8	-8.0
M3-2	10	1	0.0	58.2	66	58.2	10	----	58.2	0.0	8	-8.0
Dog Park	12	1	0.0	52.5	66	52.5	10	----	52.5	0.0	8	-8.0
OS-1	14	1	0.0	51.9	66	51.9	10	----	51.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	11	0.0	0.0	0.0
All Impacted	3	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Appendix C: Modeled Receptor Locations

Appendix D
Transmission Loss Prediction

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Closed Window(s) and Door(s)**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
35	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
39.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	5	15	vinyl window (dual pane)
material or element #3	2	3	7	42	entry door glazing (dual pane)
material or element #4				0	opening
total surface		10	9	90	arbitrary total surface area

	TL Data Source	Octave Band Center Frequency (OBCF, Hz) 125	250	500	1000	2000	4000
exterior wall assembly	NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	16	40	41	48	43	52
material #1 τ		0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
vinyl window (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #2 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
entry door glazing (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #3 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
opening		0	0	0	0	0	0
material #4 τ		1	1	1	1	1	1
composite TL		19	25	29	37	45	38
prospective STC curve	enter desired STC value 35	19	28	35	38	39	39
differentials	sum of negative differentials -11	0	-3	-6	-1	6	-1

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Open Window**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
14	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
60.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	4	12	vinyl window (dual pane)
material or element #3	2	3	7	42	entry door glazing (dual pane)
material or element #4	1	3	1	3	opening
total surface		10	9	90	arbitrary total surface area

	TL Data Source	Octave Band Center Frequency (OBCF, Hz) 125	250	500	1000	2000	4000
exterior wall assembly	NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	16	40	41	48	43	52
material #1 τ		0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
vinyl window (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #2 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
entry door glazing (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #3 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
opening		0	0	0	0	0	0
material #4 τ		1	1	1	1	1	1
composite TL		13	14	15	15	15	15
prospective STC curve	enter desired STC value 14	-2	7	14	17	18	18
differentials	sum of negative differentials -9	15	7	1	-2	-3	-3

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Open Door**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
6	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
68.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	5	15	vinyl window (dual pane)
material or element #3	1	3	7	21	entry door glazing (dual pane)
material or element #4	1	3	7	21	opening
total surface		10	9	90	arbitrary total surface area

	TL Data Source	Octave Band Center Frequency (OBCF, Hz) 125	250	500	1000	2000	4000
exterior wall assembly	NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	16	40	41	48	43	52
material #1 τ		0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
vinyl window (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #2 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
entry door glazing (dual pane)	available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	23	23	27	35	47	36
material #3 τ		0.00501	0.00501	0.002	0.00032	2E-05	0.00025
opening		0	0	0	0	0	0
material #4 τ		1	1	1	1	1	1
composite TL		6	6	6	6	6	6
prospective STC curve	enter desired STC value 6	-10	-1	6	9	10	10
differentials	sum of negative differentials -10	16	7	0	-3	-4	-4

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Closed Window(s) and Door(s)**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
35	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
39.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	5	15	vinyl window (dual pane)
material or element #3	2	3	7	42	entry door glazing (dual pane)
material or element #4				0	opening
total surface		10	9	90	arbitrary total surface area

TL Data Source		125	250	500	1000	2000	4000
NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	exterior wall assembly	16	40	41	48	43	52
	material #1 τ	0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	vinyl window (dual pane)	23	23	27	35	47	36
	material #2 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	entry door glazing (dual pane)	23	23	27	35	47	36
	material #3 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
	opening	0	0	0	0	0	0
	material #4 τ	1	1	1	1	1	1
	composite TL	19	25	29	37	45	38
enter desired STC value 35	prospective STC curve	19	28	35	38	39	39
sum of negative differentials -11	differentials	0	-3	-6	-1	6	-1

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Open Window**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
13	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
61.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	4	12	vinyl window (dual pane)
material or element #3	2	3	7	42	entry door glazing (dual pane)
material or element #4	1	3	1	3	opening
total surface		10	9	90	arbitrary total surface area

TL Data Source		125	250	500	1000	2000	4000
NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	exterior wall assembly	16	40	41	48	43	52
	material #1 τ	0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	vinyl window (dual pane)	23	23	27	35	47	36
	material #2 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	entry door glazing (dual pane)	23	23	27	35	47	36
	material #3 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
	opening	0	0	0	0	0	0
	material #4 τ	1	1	1	1	1	1
	composite TL	13	14	15	15	15	15
enter desired STC value 13	prospective STC curve	-3	6	13	16	17	17
sum of negative differentials -6	differentials	16	8	2	-1	-2	-2

Interior Space Studied: **Living Room**

Exterior-to-Interior Scenario: **Open Door**

Calculation per Owens Corning NCDG (pg. 16):

68.5	= *exterior* noise level (dBA CNEL)
6	= approximate *net STC* of assembly
3	= *incidence adj.* ("G+3") per OC NCDG Table 3
4	= *source adj.* ("F") per OC NCDG Table 4
-1	= *absorption adj.* per OC NCDG Table 5
68.3	= *interior* noise level (dBA CNEL)

Room *dimensions:* length 15, width 10

Room *absorption conditions:* (hard, standard, soft, very soft?) 0.8

Calculation of net STC:

	qty	width	height	square feet	description
material or element #1				33	exterior wall assembly
material or element #2	1	3	5	15	vinyl window (dual pane)
material or element #3	1	3	7	21	entry door glazing (dual pane)
material or element #4	1	3	7	21	opening
total surface		10	9	90	arbitrary total surface area

TL Data Source		125	250	500	1000	2000	4000
NRC-CNRC IC-IR-761 (p. 25: G16_WS90(406)_MFB90_2G16) 2 x 5/8" GWB, 2"x4" wood, 24" o.c., fiber batt fill, 1 x 5/8" GWB	exterior wall assembly	16	40	41	48	43	52
	material #1 τ	0.02512	0.0001	7.9E-05	1.6E-05	5E-05	6.3E-06
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	vinyl window (dual pane)	23	23	27	35	47	36
	material #2 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
available TL data for comparable assembly: Viracon 5/8" overall - 1/8" glass + 3/8" airspace + 1/8" glass	entry door glazing (dual pane)	23	23	27	35	47	36
	material #3 τ	0.00501	0.00501	0.002	0.00032	2E-05	0.00025
	opening	0	0	0	0	0	0
	material #4 τ	1	1	1	1	1	1
	composite TL	6	6	6	6	6	6
enter desired STC value 6	prospective STC curve	-10	-1	6	9	10	10
sum of negative differentials -10	differentials	16	7	0	-3	-4	-4

Appendix E

Residential HVAC Noise Prediction

SOURCE: Dudek 2021

DUDEK

0 135 270 Feet

FIGURE 1

HVAC Noise Levels

Vista Melrose

Appendix J-1
Local Transportation Assessment

LINSCOTT LAW & GREENSPAN engineers

LOCAL TRANSPORTATION ASSESSMENT
TTLC VISTA MELROSE, LLC PROJECT

Vista, California
August 18, 2022

LLG Ref. 3-22-3573

Prepared by:
Zahira Chayeb
Transportation Engineer I

Under the Supervision of:
John Boarman, P.E.
Principal

Linscott, Law & Greenspan, Engineers
4542 Ruffner Street
Suite 100
San Diego, CA 92111
858.300.8800 T
858.300.8810 F
www.llgengineers.com

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APPENDIX

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B. Intersection Methodology

C. City of Vista Roadway Classification Table

D. Existing Peak Hour Intersection Analysis Worksheets

E. Proposed Improvement Conceptual Plan

F. Existing + Project Peak Hour Intersection Analysis Worksheets

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LOCAL TRANSPORTATION ASSESSMENT

TTLC VISTA MELROSE, LLC PROJECT

Vista, California
August 18, 2022

1.0 INTRODUCTION

Linscott, Law and Greenspan, Engineers (LLG) has prepared this Local Transportation Assessment (LTA) to assess the impacts to the street system as a result of the proposed TTLC Vista Melrose, LLC Project. The Project proposes to develop 34 single-family homes on the southeast corner of the Melrose Drive / Matagual Drive intersection in the City of Vista.

The traffic analysis presented in this report includes the following:

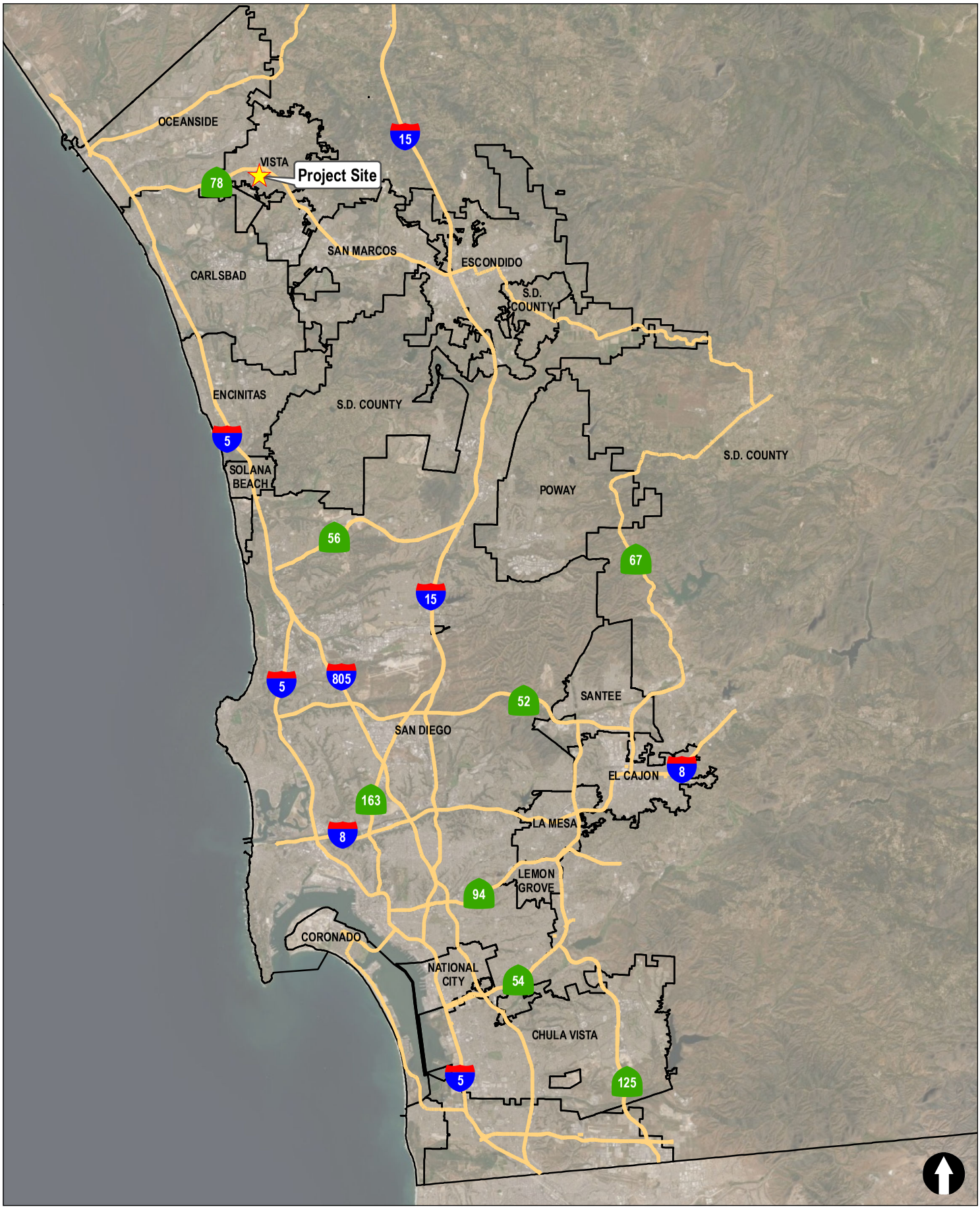
- Project Description
- Existing Conditions Decription
- CEQA Vehicle Miles Traveled (VMT) Assessment
- Local Transportation Assessment Approach and Methodology
- Substantial Effect Criteria
- Analysis of Existing Conditions
- Trip Generation/Distribution/Assignment
- Analysis of Existing + Project Scenario
- Access Assessment
- Active Transportation Discussion
- Conclusions

2.0 PROJECT DESCRIPTION

The Project site consists of 34 single-family homes on 5.55 acres, located on the southeast corner of the Melrose Drive / Matagual Drive intersection. Site access is proposed via one full access driveway located on Matagual Drive.

The proposed Project site is General Plan designated Commercial Office (CO) and Medium Low Density Residential (MD), and zoned Office Professional (O-P) and Single Family Residential (R-1). The proposed Project site will require a General Plan Amendment to Medium Density Residential (MD) and a rezone to R-M (10) Multifamily Residential.

Figure 2–1 shows the Project vicinity and ***Figure 2–2*** illustrates, in more detail, the site location. ***Figure 2–3*** shows the Project site plan.



LINSCOTT LAW & GREENSPAN engineers

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Time: 8:41 AM

Figure 2-1

Vicinity Map

TTLC VISTA MELROSE, LLC

LINSCOTT LAW & GREENSPAN engineers

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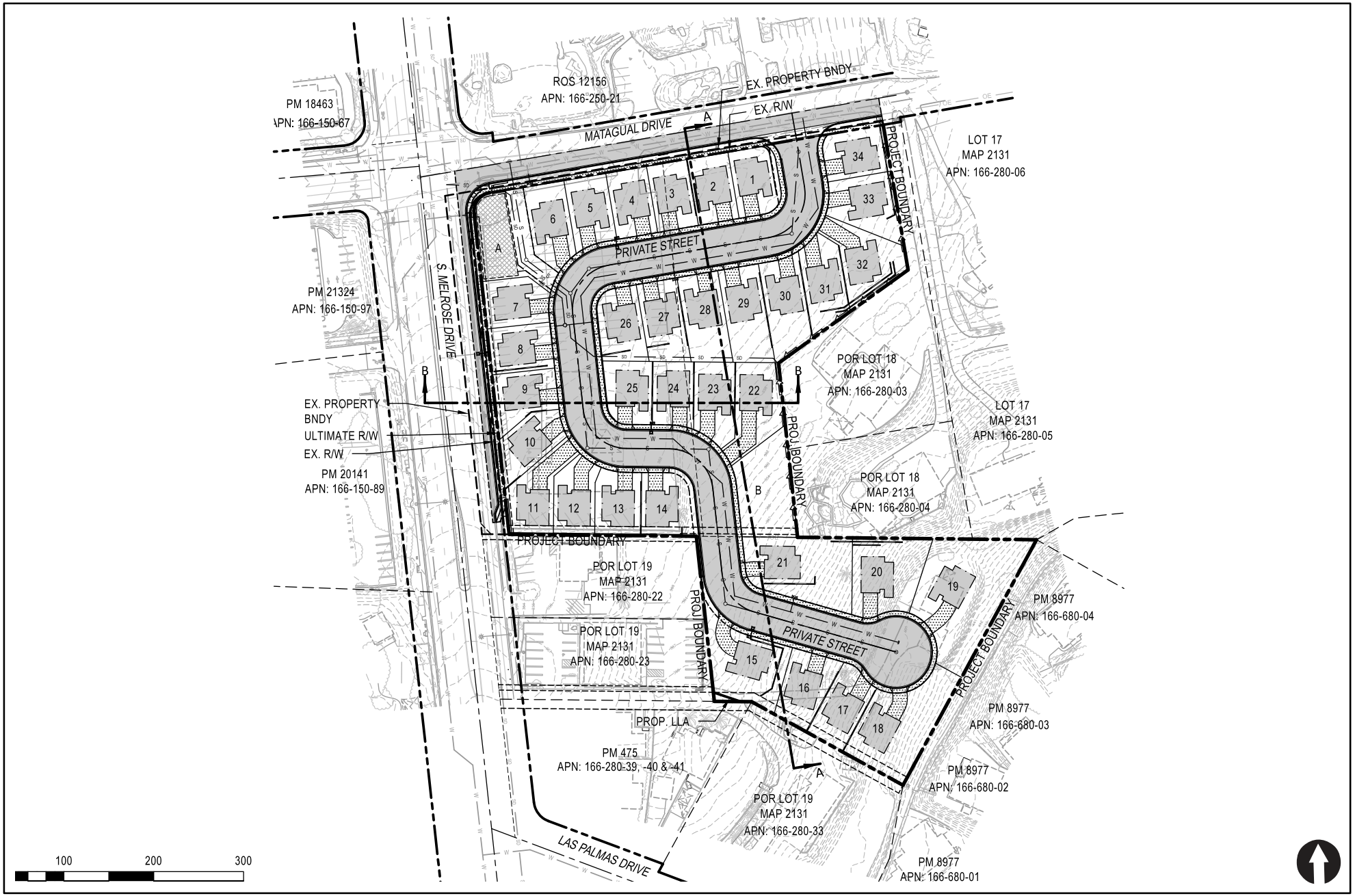
Date: 08/08/22

Figure 2-2

Project Area Map

TTLC Vista Melrose, LLC



LINSCOTT LAW & GREENSPAN engineers

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Figure 2-3

Site Plan

TTLC Vista Melrose, LLC

3.0 EXISTING CONDITIONS

Effective evaluation of the traffic impacts associated with the proposed Project requires an understanding of the existing transportation system within the project area. ***Figure 3–1*** shows an existing conditions diagram, including signalized intersections and lane configurations.

The study area includes the following intersections and street segments:

INTERSECTIONS

1. South Melrose Drive / County Complex
2. South Melrose Drive / Matagual Drive / Breeze Hill Road
3. South Melrose Drive / Melrose Way

STREET SEGMENTS

1. South Melrose Drive between County Complex and Matagual Drive
2. South Melrose Drive between Matagual Drive and Melrose Way

3.1 Existing Transportation Conditions

The following is a description of the existing street network in the study area.

South Melrose Drive is classified as a 6-Lane Urban Major in the *City of Vista Circulation Plan*. It is currently constructed as a six-lane roadway separated by a raised median between County Complex and Las Palmas Drive. From Las Palmas Drive to Melrose Way, South Melrose Drive is built as a four-lane undivided roadway. South of Melrose Way, the roadway is currently constructed as a four-lane undivided roadway with a two-way left-turn lane. There is a Class II bike lane along the east side of South Melrose Drive. A Class III bike route with sharrows is provided on the west side of the roadway, north of Las Palmas Drive. South of Las Palmas Drive, Class II bike lanes are provided on both sides of roadway. Contiguous sidewalks are provided on both sides of the roadway. Curbside parking is not permitted. The posted speed limit is 40 mph.

County Complex is an unclassified roadway in the *City of Vista Circulation Plan*. It is currently constructed as a two-lane roadway separated by a raised median. Bike lanes are not provided. Contiguous sidewalks are provided on both sides of the roadway. Curbside parking is permitted intermittently along the roadway. There is no posted speed limit.

Breeze Hill Road is an unclassified roadway in the *City of Vista Circulation Plan*. It is currently constructed as a two-lane undivided roadway. Bike lanes are not provided. Contiguous sidewalks are provided on both sides of the roadway. Curbside parking is permitted. The posted speed limit is 25 mph.

Matagual Drive is an unclassified roadway in the *City of Vista Circulation Plan*. It is currently constructed as a two-lane undivided roadway. Bike lanes are not provided. Sidewalks are provided

on the north side of the roadway for about 500 feet from the South Melrose Drive and Matagual Drive intersection. Curbside parking is not permitted. The posted speed limit is 25 mph.

Melrose Way is classified as a 2-Lane Light Collector in the *City of Vista Circulation Plan*. It is currently constructed as a two-lane undivided roadway. Bike lanes are not provided. Contiguous sidewalks are provided on the north side of the roadway between South Melrose Drive and Centennial Drive, and on the south side of the roadway for only about 300 feet from the South Melrose Drive and Melrose Way intersection. Curbside parking is permitted intermittently along the roadway. The posted speed limit is 35 mph.

3.2 Existing Traffic Volumes

Table 3–1 is a summary of the average daily traffic volumes conducted on Wednesday, June 8, 2022 at the study area street segments. Peak hour intersection turning movement volume counts were conduct at the study area intersections on either Wednesday, June 8, 2022 while schools were in session.

Figure 3–2 shows the Existing Traffic Volumes. ***Appendix A*** contains the existing count sheets.

TABLE 3–1
EXISTING TRAFFIC VOLUMES

Street Segment	ADT[a]
South Melrose Drive	
County Complex to Matagual Drive	33,480
Matagual Drive to Melrose Way	32,985

Footnotes:

a. Average Daily Traffic Volumes.

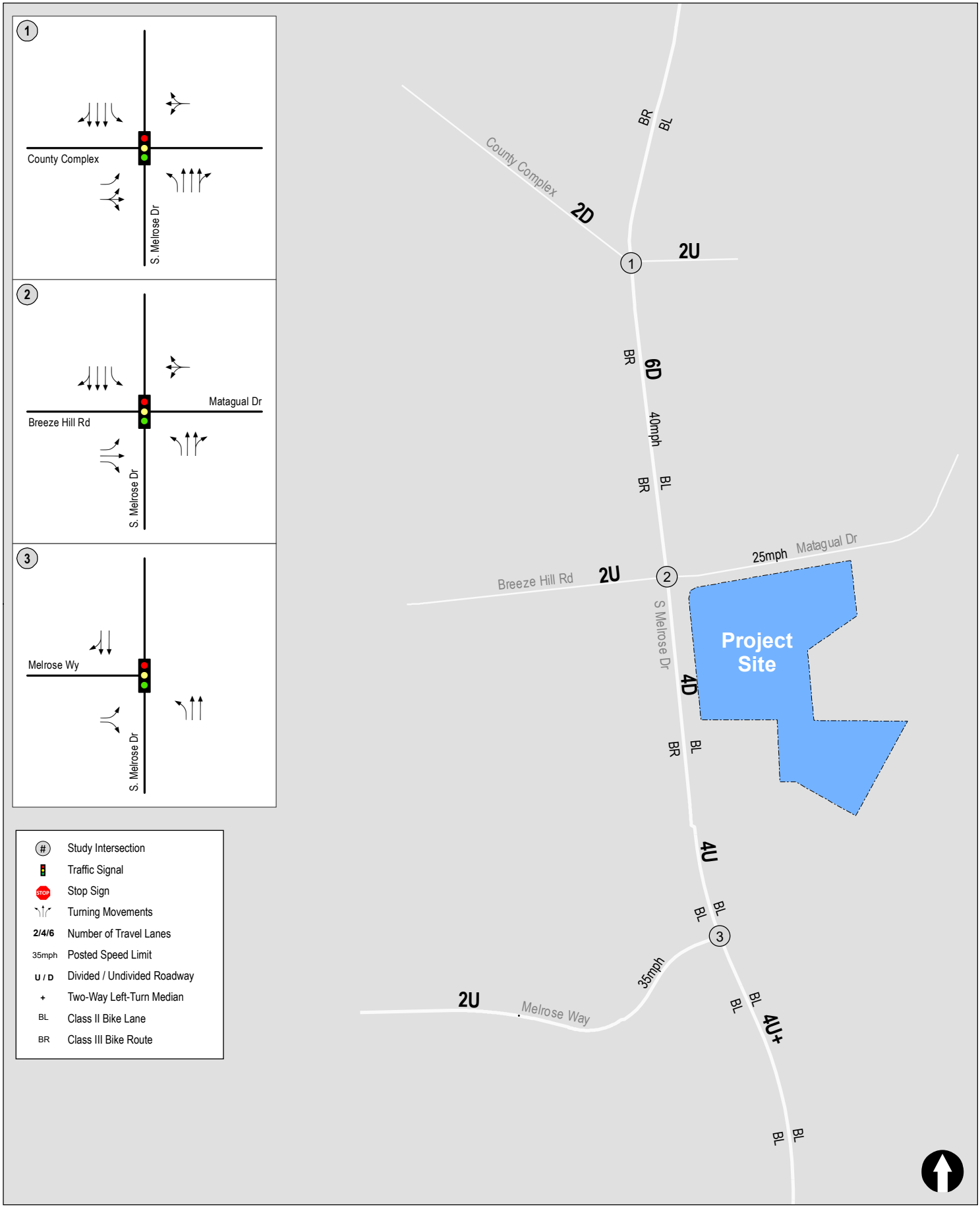

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Figure 3-1

Existing Conditions Diagram

TTLC Vista Melrose, LLC

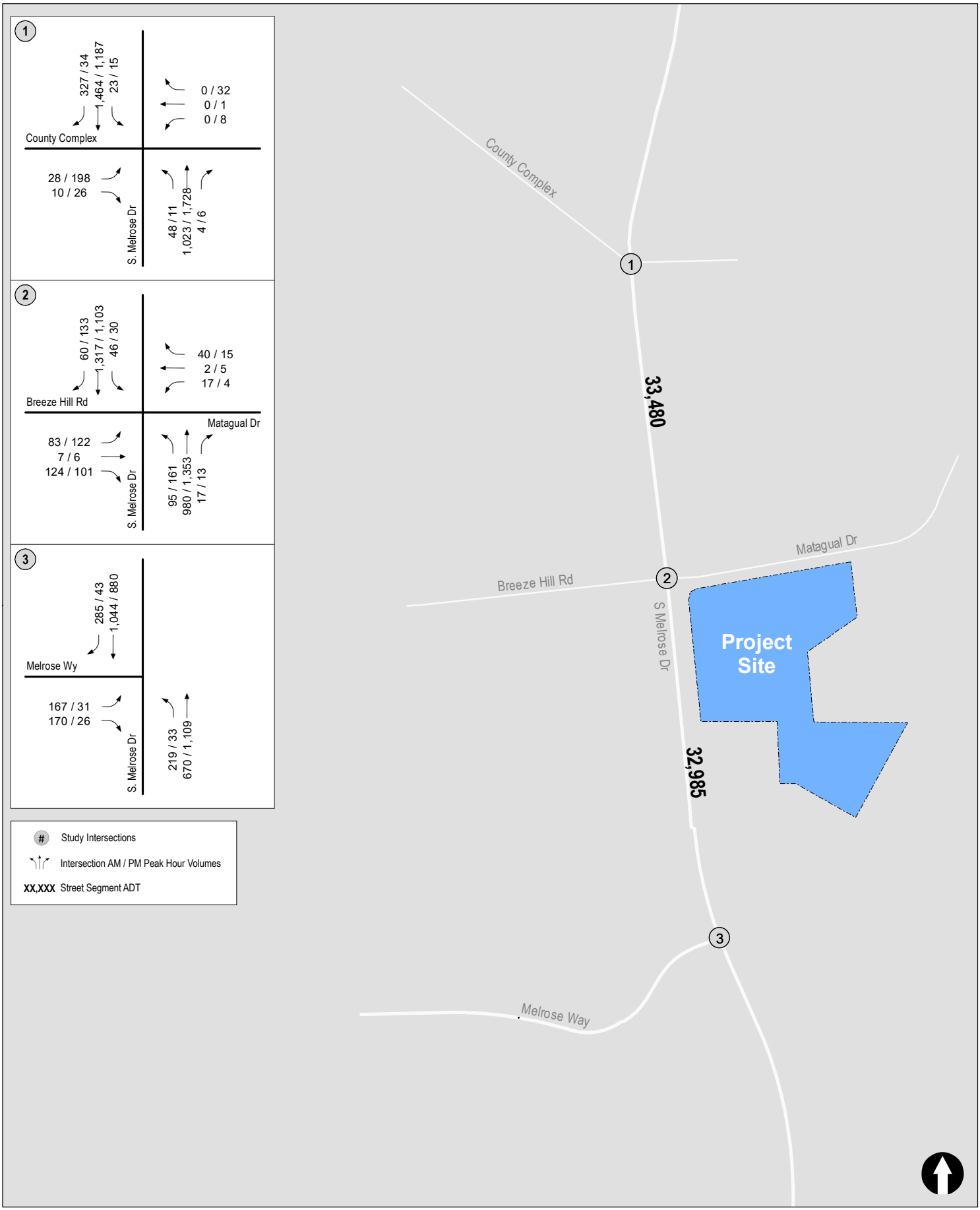

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Figure 3-2

Existing Traffic Volumes

TTLC Vista Melrose, LLC

4.0 VEHICLE MILES TRAVELED (VMT) ASSESSMENT

An assessment was conducted to determine the impacts on Vehicle Miles Traveled (VMT) for the Project. This assessment utilizes methodologies presented within the Governor's Office of Planning and Research (OPR) Technical Advisory developed to assist with implementation of Senate Bill 743 (SB 743), which resulted in a shift in the measure of effectiveness for determining transportation impacts from Level of Service (LOS) and vehicular delay to VMT. VMT analyses are required for use in all California Environmental Quality Act (CEQA) documents no later than July 1, 2020.

The VMT analysis thresholds are based on the City of Vista's *Transportation Impact Analysis Guidelines*, December 2020.

As stated in the City guidelines, "Some projects for CEQA purposes qualify as screened out. If a project is screened out, that means the project has VMT reducing characteristics and is assumed to decrease VMT. SB 743 eliminates the need for these projects to be analyzed for CEQA purposes since they support VMT reduction. Screened out is defined as projects not needed to be analyzed for CEQA purposes that already support VMT reduction.".

Per the City of Vista's *Transportation Impact Analysis Guidelines*, projects that are considered inconsistent with the General Plan and generate an average daily traffic volume (ADT) of 500 trips or less are "screened out" and do not need a VMT analysis.

As discussed in *Section 8.0*, the Project is calculated to generate approximately 340 ADT.

Based on the Project's trip generation, the Project is "screened out" and does not require a VMT analysis.

5.0 LOCAL TRANSPORTATION ASSESSMENT APPROACH AND METHODOLOGY

5.1 Analysis Approach

Per the *City of Vista Transportation Impact Analysis Guidelines*, an LTA is required for projects generating 200 to 400 ADT that analyzes existing conditions and existing conditions plus project traffic to determine the project specific traffic effects within the study.

5.2 Analysis Methodology

Level of service (LOS) is the term used to denote the different operating conditions which occur on a given roadway segment under various traffic volume loads. It is a qualitative measure used to describe a quantitative analysis taking into account factors such as roadway geometries, signal phasing, speed, travel delay, freedom to maneuver, and safety. LOS provides an index to the operational qualities of a roadway segment or an intersection. LOS designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions. LOS designation is reported differently for signalized and unsignalized intersections, as well as for roadway segments.

5.2.1 *Intersections*

Signalized intersections were analyzed under AM and PM peak hour conditions. Average vehicle delay was determined utilizing the methodology found in Chapter 19 of the *Highway Capacity Manual (HCM) 6th Edition,* with the assistance of the *Synchro* (version 11) computer software. The delay values (represented in seconds) were qualified with a corresponding intersection LOS. Signalized intersection calculation worksheets and a more detailed explanation of the methodology are attached in ***Appendix B***.

Unsignalized intersections were analyzed under AM and PM peak hour conditions. Average vehicle delay and LOS was determined based upon the procedures found in Chapters 20 and 21 of the *HCM 6th Edition,* with the assistance of the *Synchro* (version 11) computer software. Unsignalized intersection calculation worksheets and a more detailed explanation of the methodology are attached in *Appendix B.*

5.2.2 *Street Segments*

Street segment analysis is based upon the comparison of ADTs to the City of Vista's *Roadway Classification, LOS, and ADT Table*. This table provides segment capacities for different street classifications, based on traffic volumes and roadway characteristics. The City of Vista's *Roadway Classification, LOS, and ADT Table* is attached in ***Appendix C***.

6.0 SUBSTANTIAL EFFECT CRITERIA

6.1 Signalized and Unsignalized Intersections

A project will need to implement improvements to operation of an intersection when one of the following occurs:

1. *In either the Existing Conditions Plus Project and Existing Conditions Plus Near-Term Cumulative Projects scenarios, the addition of project traffic results in a service drop from LOS D or better to LOS E or F.* Under this condition, the project is responsible for improvements necessary to restore the intersection to LOS D conditions or better.

2. *In either the Existing Conditions Plus Project and Existing Conditions Plus Near-Term Cumulative Projects scenarios, an intersection is operating at LOS E or F under the no-project scenario and the project adds more than an additional two seconds of average vehicle delay.* Under this condition, the project is responsible for improvements necessary to restore the intersection LOS to pre-development conditions or better.

3. In the longer-range cumulative condition, if the addition of project traffic results in a service drop from LOS D or better to LOS E or F, or if an intersection is operating at LOS E or F and the project contributes to the average vehicle delay (regardless of time), the project is determined to have a cumulative impact. Under this condition, the project applicant is responsible for mitigating the intersection LOS to pre-development conditions or better. Identified cumulative transportation related impacts can be mitigated by participation in the City of Vista's Impact Fees for Arterials Streets and Traffic Signals program.

6.2 Street Segments

Typically, the performance and LOS of a roadway segment is heavily influenced by the ability of the intersections to accommodate peak hour volumes. The more detailed peak hour intersection analysis explicitly accounts for factors that affect roadway capacity. Therefore, roadway segment widening is typically only recommended if the peak hour intersection analysis indicates the need for additional through lanes and/or to meet the street cross sections in the Circulation Element adjacent to the project boundary. Within the City of Vista and the region as a whole, intersection performance, rather than roadway segment performance, is a more accurate and realistic indicator of true traffic operations and is used as the basis for defining traffic impacts.

7.0 ANALYSIS OF EXISTING CONDITIONS

The analysis of existing conditions includes the assessment of the study area intersections and street segments using the methodologies described in *Section 5.0*.

7.1 Intersection Analysis

Table 7–1 summarizes the existing peak hour intersection operations. As shown in *Table 7–1*, all of the study area intersections are calculated to currently operate at LOS D or better.

Appendix D contains the Existing intersection analysis worksheets.

TABLE 7–1
EXISTING INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Existing	
			Delay[a]	LOS[b]
1. South Melrose Drive / County Complex	Signal	AM	8.5	A
		PM	18.3	B
2. South Melrose Drive / Matagual Drive / Breeze Hill Road	Signal	AM	23.5	C
		PM	23.6	C
3. South Melrose Drive / Melrose Way	Signal	AM	38.7	D
		PM	9.6	A

Footnotes:
a. Average delay expressed in seconds per vehicle
b. Level of Service

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

7.2 Street Segment Analysis

Table 7–2 summarizes the existing street segment operations. As shown in *Table 7–2*, all of the study area street segments are calculated to currently operate at LOS D or better.

TABLE 7–2
EXISTING STREET SEGMENT OPERATIONS

Street Segment	Classification	Capacity (LOS E) [a]	ADT [b]	LOS [c]	V/C [d]
South Melrose Drive					
County Complex to Matagual Drive	6-Lane Urban Major (divided)	50,000	33,480	B	0.670
Matagual Drive to Melrose Way	4-Lane Major (divided)	40,000	32,985	D	0.825

Footnotes:

a. Capacities based on the City of Vista Roadway Classification Table.

b. Average Daily Traffic Volumes.

c. Level of Service.

d. Volume to Capacity.

8.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

8.1 Trip Generation

Trip generation rates for the multi-family residential land use were taken from the *SANDAG (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002*, to determine the traffic generated by the proposed Project. The trip generation rate for Single Family Detached (10 / dwelling units) was utilized. ***Table 8–1*** shows the forecast trip generation for the project. As shown in *Table 8–1*, the Project is calculated to generate 340 ADTs, with 27 trips during the AM peak hour (8 inbound and 19 outbound), and 34 trips during the PM peak hour (24 inbound and 10 outbound).

TABLE 8–1
PROJECT TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)		AM Peak Hour					PM Peak Hour				
		Rate[a]	Volume	% of ADT	In:Out Split	Volume In	Volume Out	Volume Total	% of ADT	In:Out Split	Volume In	Volume Out	Volume Total
Single Family Detached	34 dwelling units	10/DU	340	8%	30:70	8	19	27	10%	70:30	24	10	34

Footnotes:

a. Rate is based on *SANDAG's (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002*

8.2 Trip Distribution/Assignment

The Project traffic was distributed and assigned based on the site location, access to SR 78, existing traffic patterns in the area, the locations of retail, employment, and school opportunities, and anticipated traffic patterns to and from the site.

Figure 8–1 shows the Project traffic distribution. ***Figure 8–2*** shows the Project traffic volumes.

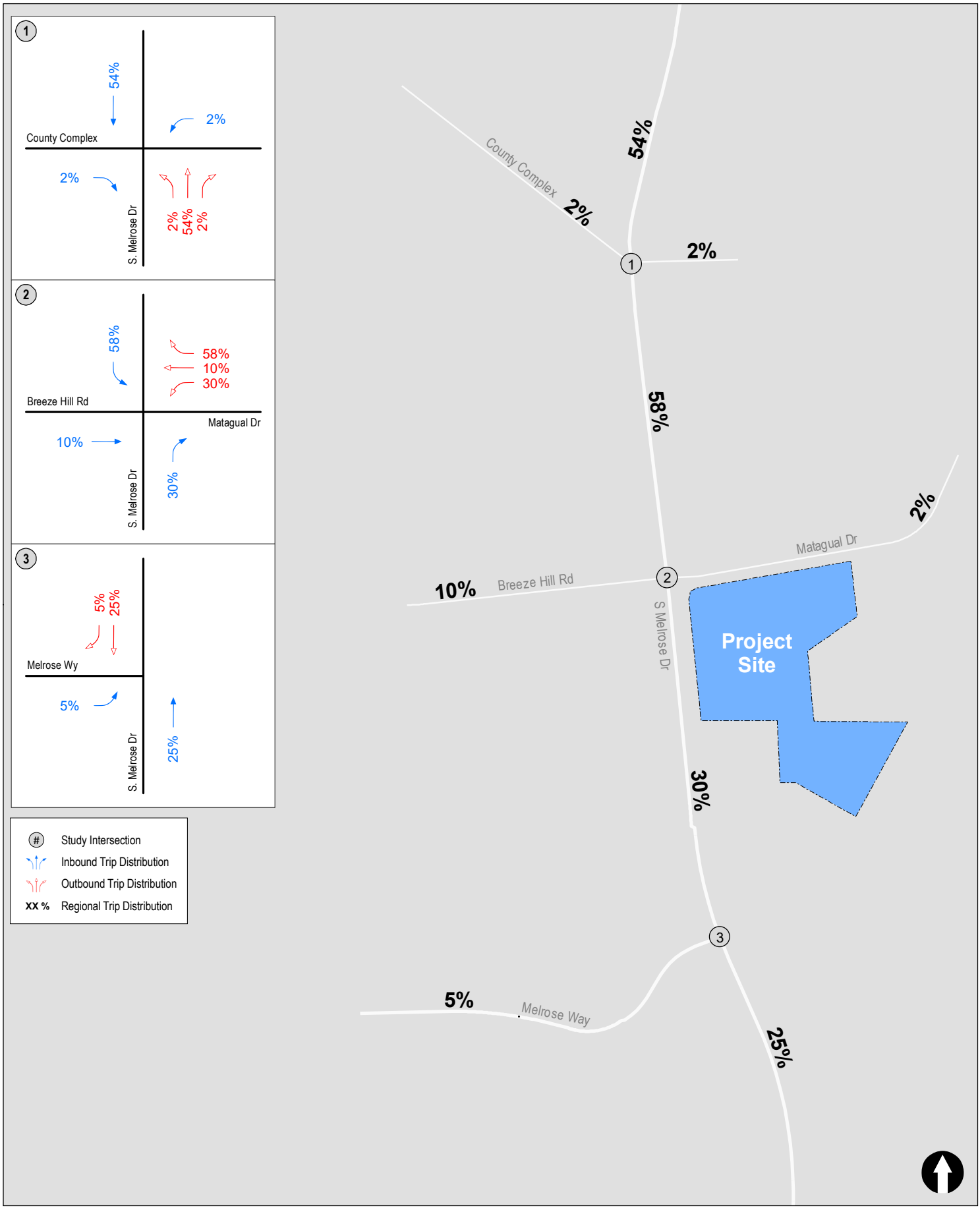

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Figure 8-1

Project Traffic Distribution

TTLC Vista Melrose, LLC

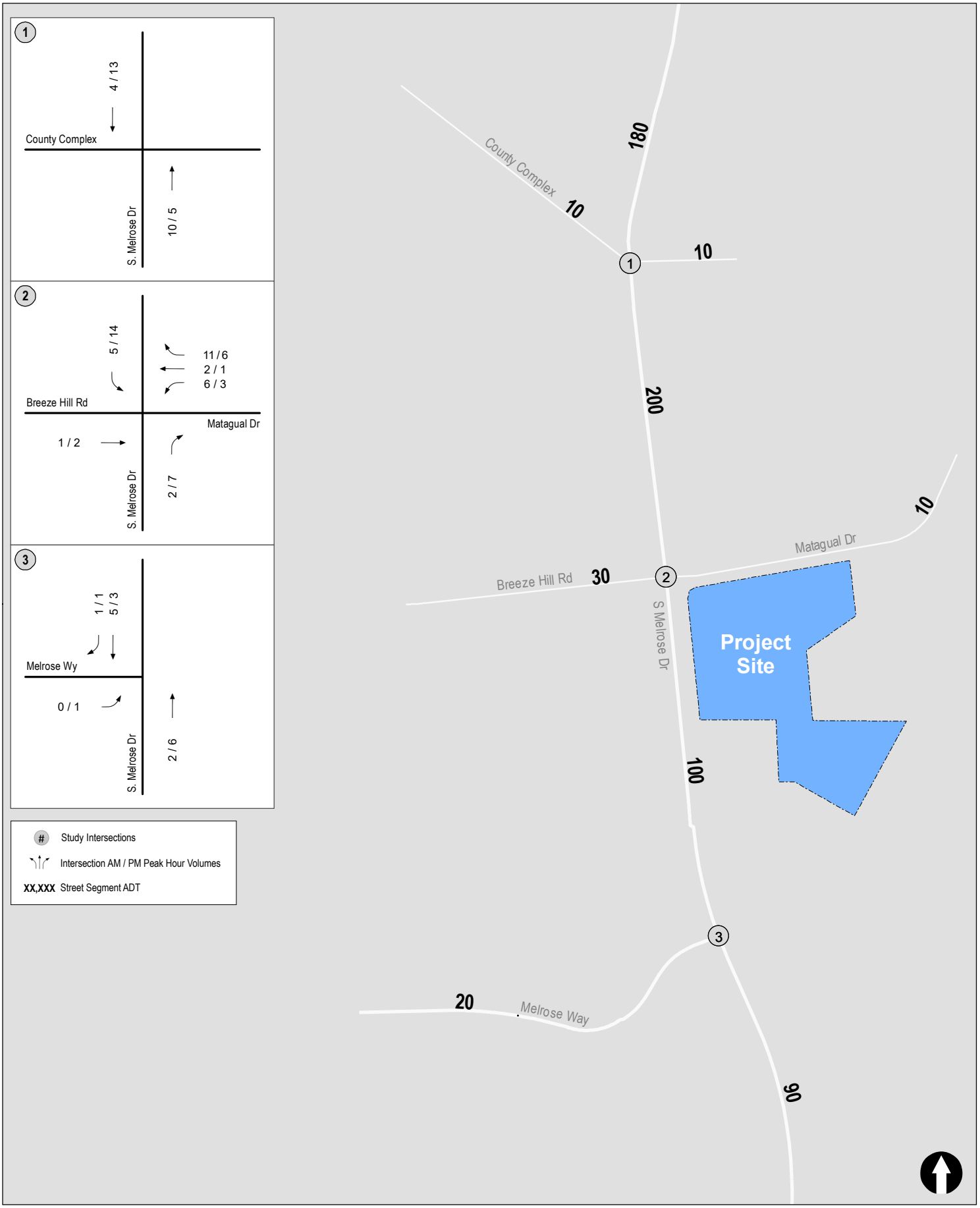

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Figure 8-2

Project Traffic Volumes

TTLC Vista Melrose, LLC

9.0 ANALYSIS OF EXISTING + PROJECT CONDITIONS

In assessing the Project's impacts to the street system, it was necessary to review nearby planned, on-going and future roadway improvements in the study area. A review of future roadway improvements indicates that there is a proposal to add an additional northbound shared through-right lane at the South Melrose Drive / Matagual Drive / Breeze Hill Road intersection. For the purposes of this traffic study, the implementation of these improvements was assumed in the Existing + Project scenario as construction is anticipated to commence pre-Project.

Appendix E contains the proposed improvement conceptual plan.

9.1 Intersection Analysis

Table 9–1 summarizes the Existing + Project and Existing + Project with Improvements intersection operations. As shown in *Table 9–1*, with the addition of Project traffic volumes, all of the study area intersections are calculated to operate at LOS D or better.

Appendix F contains the Existing + Project and Existing + Project with Improvements intersection analysis worksheets. ***Figure 9–1*** shows the Existing + Project traffic volumes.

9.2 Street Segment Analysis

Table 9–2 summarizes the Existing + Project street segment operations. As shown in *Table 9–2*, with the addition of Project traffic volumes, all of the study area street segments are calculated to operate at LOS D or better.

TABLE 9–1
EXISTING + PROJECT INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Existing		Existing + Project		Δ[c]	Existing + Project (with improvement)		Δ[c]
			Delay[a]	LOS[b]	Delay	LOS		Delay	LOS	
1. South Melrose Drive / County Complex	Signal	AM	8.5	A	8.5	A	0.0	N/A [d]	N/A	-
		PM	18.3	B	18.4	B	0.1	N/A	N/A	-
2. South Melrose Drive / Matagual Drive / Breeze Hill Road	Signal	AM	23.5	C	25.0	C	1.5	23.1	C	(0.4)
		PM	23.6	C	24.9	C	1.3	21.5	C	(2.1)
3. South Melrose Drive / Melrose Way	Signal	AM	38.7	D	38.8	D	0.1	N/A	N/A	-
		PM	9.6	A	9.6	A	0.0	N/A	N/A	-

Footnotes:
a. Average delay expressed in seconds per vehicle
b. Level of Service
c. Δ denotes an increase in delay due to project
d. N/A = Non-Applicable

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

TABLE 9–2
EXISTING + PROJECT STREET SEGMENT OPERATIONS

Street Segment	Existing Capacity (LOS E)[a]	Existing			Existing + Project		
		ADT[b]	LOS[c]	V/C[d]	ADT	LOS	V/C
South Melrose Drive							
County Complex to Matagual Drive	50,000	33,480	B	0.670	33,680	B	0.674
Matagual Drive to Melrose Way	40,000	32,985	D	0.825	33,085	D	0.827

Footnotes:
a. Capacities based on the City of Vista Roadway Classification Table
b. Average Daily Traffic
c. Level of Service
d. Volume to Capacity ratio

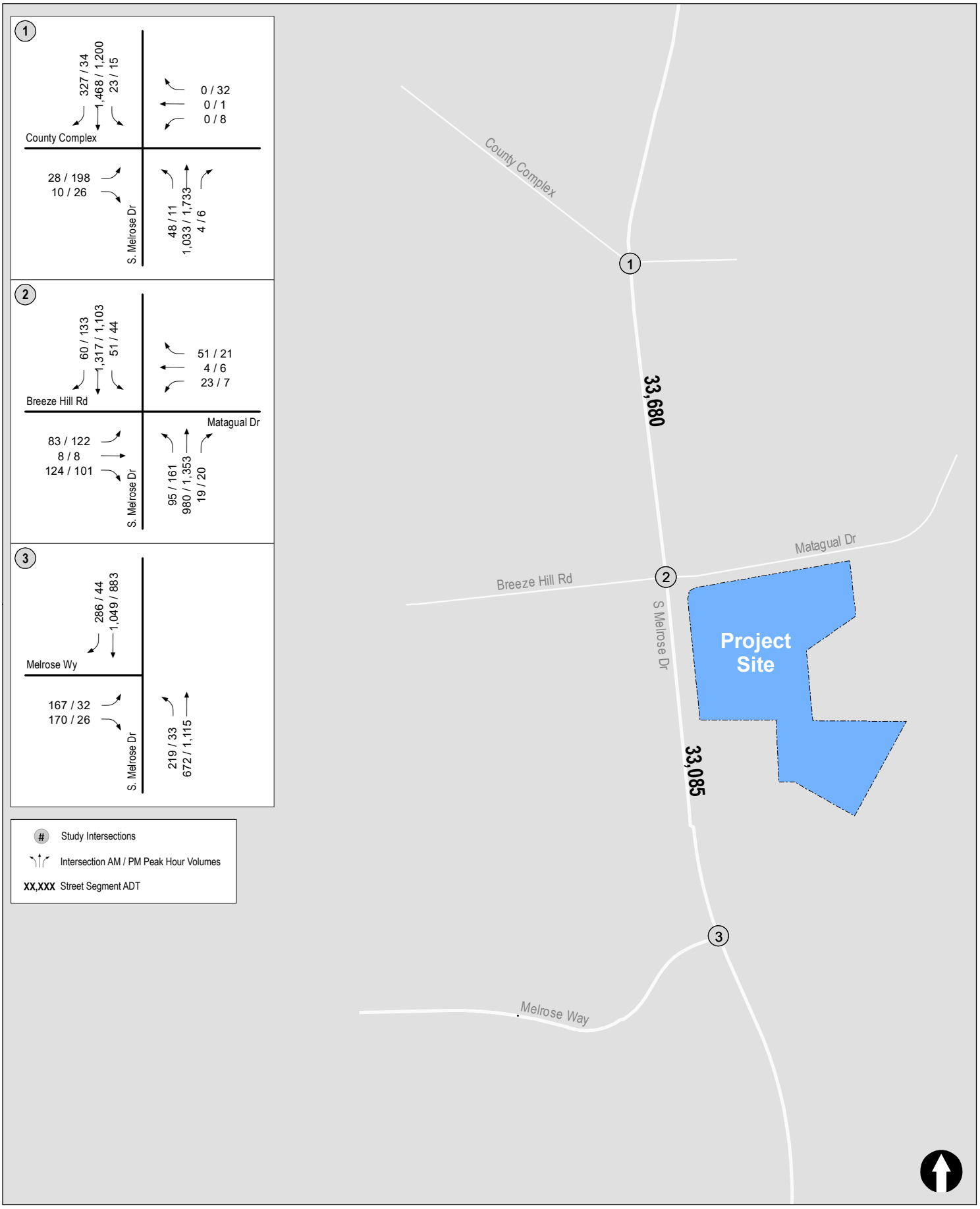

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Figure 9-1

Existing + Project Traffic Volumes

TTLC Vista Melrose, LLC

10.0 ACCESS

As described in *Section 2.0*, the Project's access would be via one full access driveway located on Matagual Drive on the north side of the Project site. This driveway is located an adequate distance from Melrose Drive and will operate well. No access is provided to Melrose Drive which is desirable.

11.0 ACTIVE TRANSPORTATION

11.1 Pedestrian Mobility

11.1.1 *Existing Pedestrian Mobility*

South Melrose Drive / County Complex: Intersection provides a controlled crossing location with pedestrian push buttons and crosswalks. However, pedestrian crossing is prohibited across the north leg.

South Melrose Drive / Matagual Drive: Intersection provides a controlled crossing location with pedestrian push buttons and crosswalks.

South Melrose Drive / Melrose Way: Intersection provides a controlled crossing location with pedestrian push buttons and high visibility crosswalks. However, pedestrian crossing is prohibited across the south leg.

South Melrose Drive – Within the study area, South Melrose Drive currently provides contiguous sidewalks on both sides of the roadway.

County Complex – Within the study area, County Complex currently provides contiguous sidewalks on both sides of the roadway.

Breeze Hill Road – Within the study area, Breeze Hill Road currently provides contiguous sidewalks on both sides of the roadway.

Matagual Drive – Sidewalks are only provided on the north side of the roadway for about 500 feet from the South Melrose Drive / Matagual Drive intersection. Sidewalks are missing along both sides of the remainder of the roadway.

Melrose Way – Contiguous sidewalks are provided on the north side of the roadway between South Melrose Drive and Centennial Drive, and on the south side of the roadway for only about 300 feet from the South Melrose Drive / Melrose Way intersection. Sidewalks are missing on the south side along of the remainder of the roadway.

11.1.2 *Future Pedestrian Mobility*

Per the *City of Vista General Plan*, no future pedestrian facilities are planned within the study area.

However, LLG recommends to add sidewalks to the south side of Matagual Drive along the project frontage.

11.2 Bicycle Mobility

11.2.1 *Existing Bicycle Mobility*

South Melrose Drive – Within the study area, South Melrose Drive currently provides Class II bike lane along the east side of the roadway. A Class III bike route with sharrows is provided on the west side of the roadway, north of Las Palmas Drive. South of Las Palmas Drive, Class II bike lanes are provided on both sides of roadway.

No other bicycle facilities are provided within the study area.

11.2.2 *Future Bicycle Mobility*

Per the *City of Vista General Plan*, a Class II Bicycle Lane is planned to be constructed along South Melrose Drive from Hacienda Drive to Matagual Drive.

11.3 Transit Mobility

The North County Transit District (NCTD) operates within the study area. A description of the transit services within the Project vicinity are as follows:

North County Transit District (NCTD)

Route 332

Route 332 begins at the Vista Transit Center to the Buena Creek Sprinter Station. There are 63 stops along this route. It operates on the weekdays and weekends from approximately 4:30 AM to 9:30 PM. Services are at 30-minute frequencies.

Stops at the above route are located along South Melrose Drive. The nearest bus stop at the project site is at the Melrose Dr / Breeze Hill Rd intersection, approximately 600 feet in walking distance from the project site access driveway.

Appendix G contains the most current public transit route schedules and maps for the above-mentioned bus route.

12.0 CONCLUSIONS

The Project site consists of 34 single-family homes on 5.55 acres, located the southeast corner of the Melrose Drive / Matagual Drive intersection. Site access is proposed via one full access driveway located on Matagual Drive on the north side of the Project site.

Vehicle Miles Traveled (VMT)

The Project is calculated to generate 340 ADT. Per the City of Vista's *Transportation Impact Analysis Guidelines* for projects inconsistent with the Adopted General Plan, a VMT analysis is not required as the project would generate less than 500 ADT.

Local Mobility Analysis (LMA)

The study area intersections are calculated to operate acceptably at LOS D or better during the AM and PM peak hours under Existing, Existing + Project and Existing + Project with Improvements scenarios. Based on the City of Vista's improvement thresholds, no substantial effects are identified Therefore, improvements are not required under this analysis.

As mentioned in *Section 11.0,* sidewalks are only provided on the north side of Matagual Drive for about 500 feet from the South Melrose Drive / Matagual Drive intersection. LLG recommends to add sidewalks to the south side of Matagual Drive along the project frontage.

Appendix J-2
Vehicle Miles Travelled Study

LINSCOTT LAW & GREENSPAN engineers

VEHICLE MILES TRAVELED STUDY

TTLC VISTA MELROSE, LLC

Vista, California
February 1, 2023

LLG Ref. 3-22-3573

Prepared by:
Zahira Chayeb
Transportation Engineer I

Under the Supervision of:
John Boarman, P.E.
Principal

Linscott, Law & Greenspan, Engineers
4542 Ruffner Street
Suite 100
San Diego, CA 92111
858.300.8800 T
858.300.8810 F
www.llgengineers.com

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VEHICLE MILES TRAVELED STUDY

TTLC VISTA MELROSE, LLC

Vista, California
February 1, 2023

1.0 INTRODUCTION

Linscott, Law & Greenspan, Engineers (LLG) has prepared this Vehicle Miles Traveled (VMT) study to determine the VMT impacts for the TTLC Vista Melrose, LLC Project (hereafter referred to as "Project"). The Project proposes to develop 34 single-family homes on 5.55 acres, located on the southeast corner of the Melrose Drive / Matagual Drive intersection in the City of Vista.

This study includes the following:

- Project Description
- Trip Generation Calculations
- Vehicle Miles Traveled: Overview and Background
- VMT Significance Criteria and Methodology
- VMT Analysis
- Conclusions

2.0 PROJECT DESCRIPTION

The Project site consists of 34 single-family homes on 5.55 acres, located on the southeast corner of the Melrose Drive / Matagual Drive intersection. Site access is proposed via one full access driveway located on Matagual Drive.

Figure 2–1 shows the Project vicinity and ***Figure 2–2*** illustrates, in more detail, the site location. ***Figure 2–3*** shows the Project site plan.

2.1 Trip Generation

Trip generation rates for the multi-family residential land use were taken from the *SANDAG (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002*, to determine the traffic generated by the proposed Project. Because the Project proposes the development of 34 single-family homes, the trip generation rate for single-family detached (10 / dwelling units) was utilized. ***Table 2–1*** shows the forecast trip generation for the project. As shown in *Table 2–1*, the Project is calculated to generate 340 ADTs, with 27 trips during the AM peak hour (8 inbound and 19 outbound), and 34 trips during the PM peak hour (24 inbound and 10 outbound).

TABLE 2–1
PROJECT TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)		AM Peak Hour					PM Peak Hour				
		Rate[a]	Volume	% of ADT	In:Out Split	Volume			% of ADT	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Single Family Detached	34 dwelling units	10/DU[b]	340	8%	30:70	8	19	27	10%	70:30	24	10	34

Footnotes:

a. Rate is based on *SANDAG's (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002*

b. Rate is based on single family detached rate of 10/DU

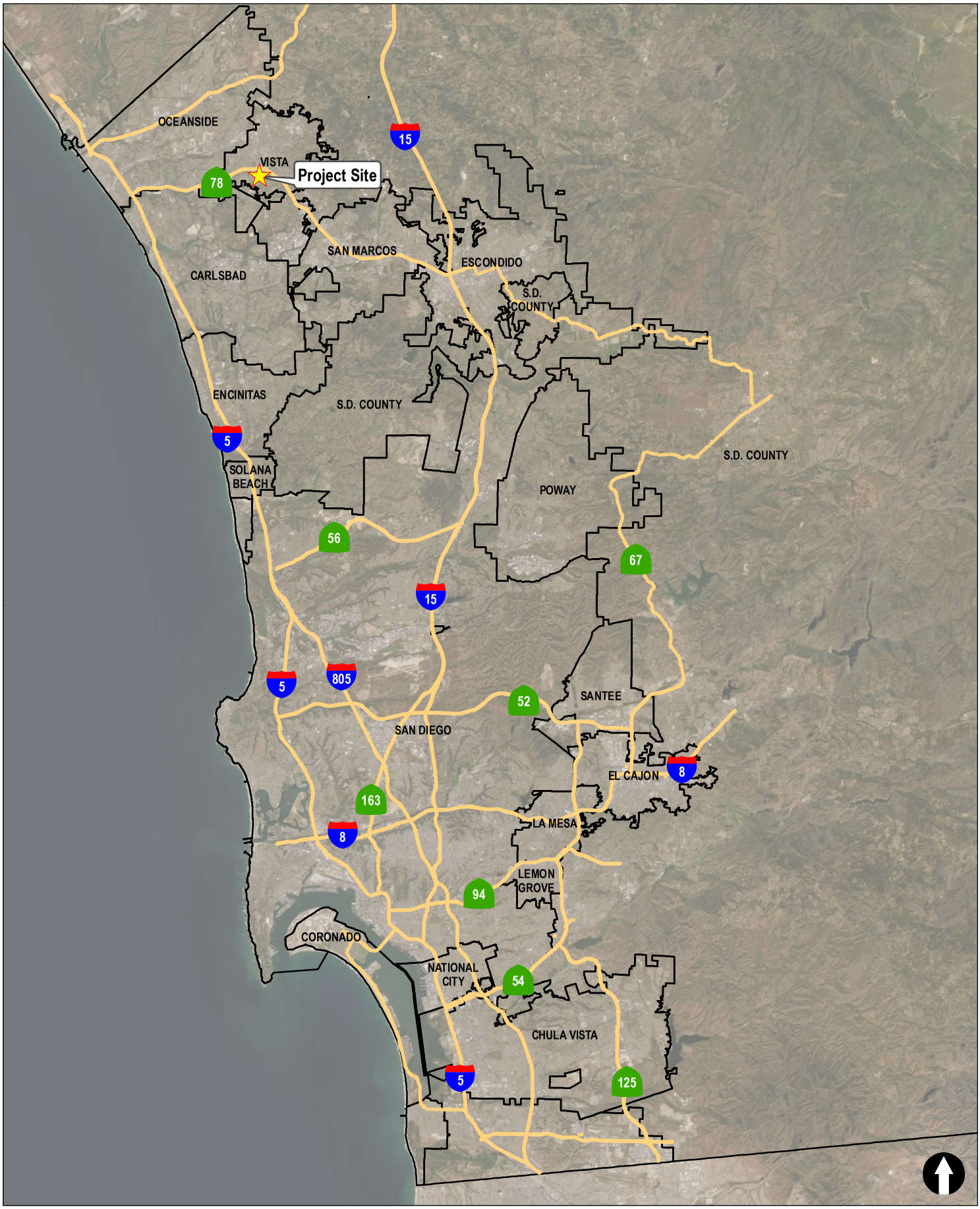

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Figure 2-1

Vicinity Map

TTLC VISTA MELROSE, LLC

LINSCOTT LAW & GREENSPAN engineers

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Figure 2-2

Project Area Map

TTLC Vista Melrose, LLC

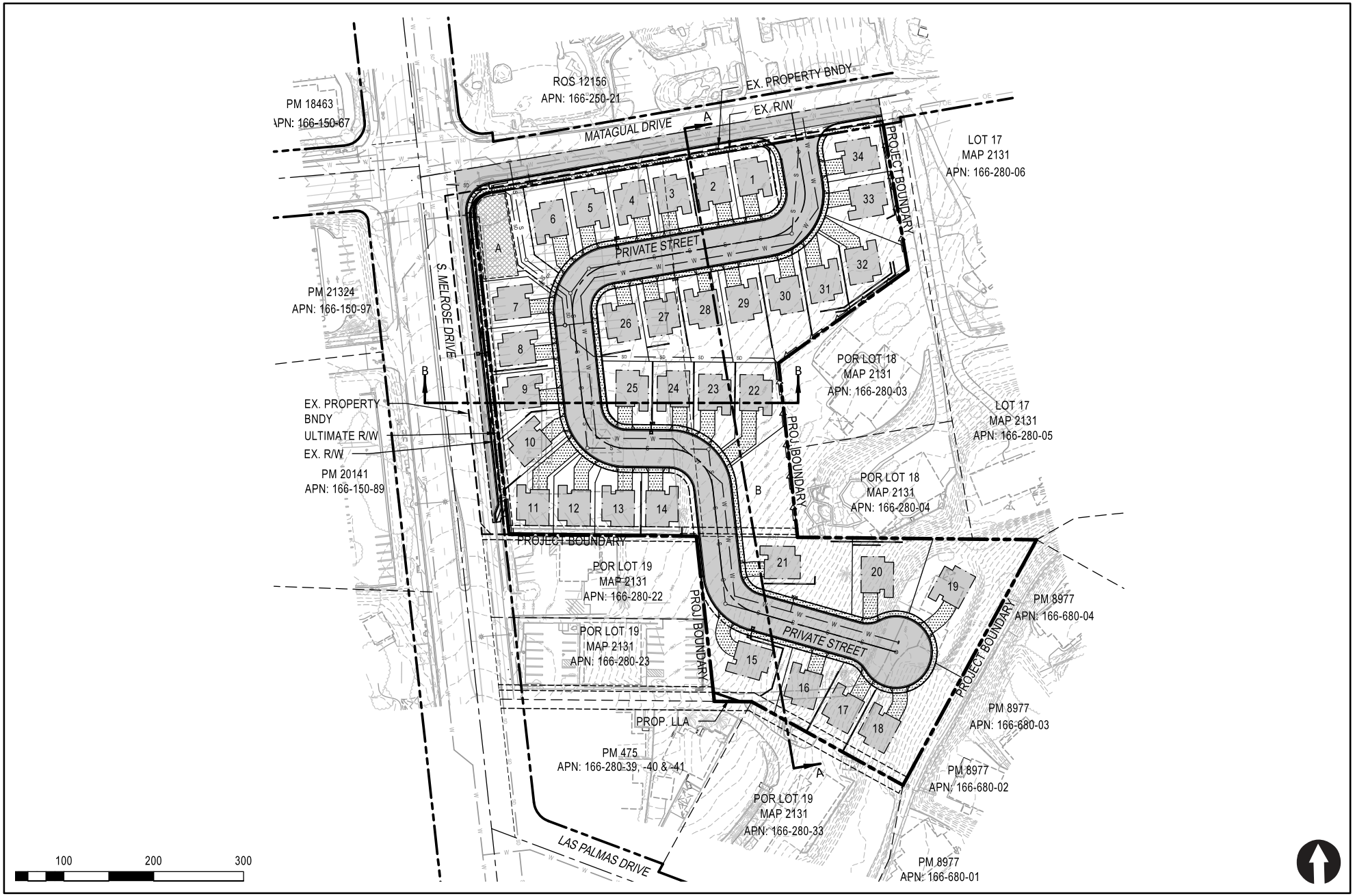

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Figure 2-3

Site Plan

TTLC Vista Melrose, LLC

3.0 VEHICLE MILES TRAVELED: OVERVIEW AND BACKGROUND

This section presents background on an evaluation of potential transportation impacts of the Project per the California Governor's Office of Planning and Research (OPR) to implement California State Law Senate Bill (S.B.) 743 and the City's adopted *Transportation Impact Analysis Guidelines*, December 2020.

3.1 VMT Background

VMT is a measurement of miles traveled by vehicles within a specified region and for a specified time period. VMT measures the efficiency of the transportation network. VMT is calculated based on individual vehicle trips generated and their associated trip lengths. VMT accounts for two-way (round trip) travel and is often estimated for a typical weekday to measure transportation impacts.

3.2 Senate Bill 743

In September 2013, the Governor's Office signed SB 743 into law, starting a process that fundamentally changes the way transportation impact analysis is conducted under CEQA. These changes include the elimination of auto delay, level of service (LOS), and similar measurements of vehicular roadway capacity and traffic congestion as the basis for determining significant impacts. The guidance identifies VMT as the most appropriate CEQA transportation metric, along with the elimination of Auto Delay/LOS for CEQA purposes statewide. The justification for this paradigm shift is that Auto Delay/LOS impacts lead to improvements that increase roadway capacity and therefore induce more traffic and greenhouse gas emissions.

In December 2018, after over five years of stakeholder-driven development, the California Natural Resource Agency certified and adopted the CEQA Statute. As of July 1, 2020, the VMT guidelines are applicable statewide.

4.0 VMT ANALYSIS

Per the *City of Vista Transportation Impact Analysis Guidelines (dated December 2020)*, a VMT analysis for CEQA purposes will be required if a project equals to or exceeds 1,000 average daily trips (ADT) and is consistent with the adopted General Plan. If a project is inconsistent with the adopted General Plan, a VMT analysis will be required if the project is 500 or more ADT. As shown in *Table 2–1*, the Project is calculated to generate approximately 340 ADT. Therefore, based on the City's TIA Guidelines, a VMT analysis is not required as the project would generate less than 500 ADT. VMT impacts are presumed to be less than significant.

5.0 CONCLUSIONS

As noted above, the Project is considered a "small project" based on the trip generation calculations shown in *Table 2–1*, and is therefore presumed to have a less than significant VMT impact and will not require further evaluation.

Appendix K

Mitigation, Monitoring, and Reporting Program

Mitigation, Monitoring, and Reporting Program

Vista Melrose Residential Project

APRIL 2023

Prepared for:

CITY OF VISTA
200 Civic Center Drive
Vista, California 92084

Prepared by:

DUDEK

605 Third Street
Encinitas, California 92024

Printed on 30% post-consumer recycled material.

Mitigation Monitoring and Reporting Program

PROJECT NAME: Vista Melrose Residential Project

DESCRIPTION: The proposed Vista Melrose Residential Project (Project) consists of a residential development within the City of Vista (City). The approximately 5.55-acre site includes Assessor's Parcel Numbers [APNs] 166-280-60-00, 166-280-61-00, and 166-280-18-00. The properties at 560 S. Melrose Drive and APN 166-280-61-00 are both currently zoned O-P (Office Professional) and a corresponding General Plan designation of Commercial Office (CO). The property at 622 S. Melrose Drive is currently zoned R-1 (Residential) and has a corresponding General Plan designation of Medium Low Density Residential (MLD). The applicant, TTLC Vista Melrose, LLC, proposes to rezone all three properties to R-1-B (Residential) with a corresponding General Plan change to Medium Density Residential (MD). Furthermore, the applicant proposes a thirty-seven (37) lot Tentative Subdivision Map to redevelop the site to include thirty-four (34) single-family residences, which would result in a proposed density of 6.1 dwelling units per acre, a private street, private park with a tot lot and a dog park. The project will utilize the City of Vista Small Lot Subdivision standards per Vista Development Code Section 18.33 to achieve their project design. The proposed project would also include landscaping and offsite street and utility improvements.

LOCATION: 560 S. Melrose Drive, 622 S. Melrose Drive and APN#166-280-61-00, within the city of Vista.

Table 1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Staff Monitor	Timing of Compliance	Date of Completion
Cultural Resources			
MM-CUL-1 Cultural resource mitigation monitoring shall be conducted on the site to provide for the identification, evaluation, treatment, and protection of any cultural resources that are affected by or may be discovered during the construction of the proposed project. The monitoring shall consist of the full-time presence of a Qualified Archaeologist and a traditionally and culturally affiliated (TCA) Native American Monitor associated with a TCA tribe for, but not limited to, any clearing or grubbing of vegetation, tree removal, demolition and/or removal of remnant foundations, pavements, abandonment and/or installation of infrastructure; grading or any other ground disturbing or altering activities, including the placement of any imported fill materials (note: all fill materials shall be absent of any and all cultural resources); and any related road improvements, including, but not limited to, the installation of infrastructure, realignments, and/or expansions to parking lots. Other tasks of the monitoring program shall include the following: ▪ The requirement for cultural resource mitigation monitoring shall be noted on all applicable construction documents, including demolition plans, grading plans, etc. ▪ The Qualified Archaeologist and TCA Native American Monitor shall attend at least one pre-construction meeting with the Contractor and/or associated Subcontractors (e.g., Grading Contractor) and a representative from the City of Vista's Engineering or Community Development departments to present the archaeological monitoring program as presented in these measures.	City of Vista Community Development Department, qualified archeologist, TCA Native American Monitor	During construction	

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▪ The Qualified Archaeologist shall maintain ongoing collaborative consultation with the TCA Native American Monitor during all ground disturbing or altering activities, as identified above. The Contractor or Grading Contractor shall notify the Director of Community Development & Engineering, preferably through e-mail, of the start and end of all ground-disturbing activities. ▪ The Qualified Archaeologist and/or TCA Native American Monitor may halt ground-disturbing activities if archaeological artifact deposits or cultural features are discovered. In general, ground-disturbing activities shall be directed away from these deposits for a short time to allow a determination of potential significance, the subject of which shall be determined by the Qualified Archaeologist and the TCA Native American Monitor. If a determination is made that the unearthed artifact deposits or tribal cultural resources are considered potentially significant, the consulting TCA Tribe(s) shall be notified and consulted in regards to the respectful and dignified treatment of those resources. Ground disturbing activities shall not resume until the Qualified Archaeologist, in consultation with the TCA Native American Monitor, deems the cultural resource or feature has been appropriately documented and/or protected. At the Qualified Archaeologist's discretion, the location of ground disturbing activities may be relocated elsewhere on the project site to avoid further disturbance of cultural resources.			

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▪ The avoidance and protection of discovered unknown and significant cultural resources and/or unique archaeological resources is the preferable mitigation for the proposed project. If avoidance is not feasible, culturally appropriate treatment of those resources, including but not limited to funding an ethnographic or ethnohistoric study of the resource(s), and/or developing a data recovery plan may be authorized by the City as the Lead Agency under CEQA. If data recovery is required, then the consulting TCA Tribe(s) shall be notified and consulted in drafting and finalizing any such recovery plan. ▪ Should any cultural resources be found on the project site during construction of the project, consultation with the TCA Tribal Monitor shall occur. Based upon consultation with the TCA monitor, the cultural resources will be relocated for reburial to a portion of the existing site that will remain as open landscaped area (not active recreation areas).			
MM-CUL-2 Prior to the submission of a grading plan to City staff for review, the Applicant or Owner, and/or Contractor shall enter into a Pre-Excavation Agreement with a Traditionally and Culturally Affiliated Native American Tribe ("TCA Tribe"). A copy of the agreement shall be included in the grading plan submission. The purpose of this agreement shall be to formalize protocols and procedures between the Applicant or Owner, and/or Contractor, and the TCA tribe for the protection and treatment of, including but not limited to, Native American human remains, funerary objects, cultural and religious landscapes, ceremonial items, traditional gathering areas and cultural items, located and/or discovered through a monitoring program in conjunction with the construction of the proposed project, including additional archaeological surveys and/or studies, excavations, geotechnical investigations, off-site infrastructure installation, grading, and all other ground disturbing activities.	City of Vista Community Development Department, qualified archeologist, TCA Native American Monitor	Prior to construction	

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MM-CUL-3 Prior to the release of the Grading Bond, a Monitoring Report and/or Evaluation Report, which shall comply with Government Code Section 6254(r), shall be submitted by the Qualified Archaeologist, along with the TCA Native American Monitor's notes and comments, to the City Planner for the project administrative record.	City of Vista Community Development Department, qualified archeologist, TCA Native American Monitor	After construction and prior to issuance of occupancy permits.	
MM-CUL-4 All cultural materials that are associated with burial and/or funerary goods shall be repatriated to the Most Likely Descendant as determined by the Native American Heritage Commission (NAHC) per California Public Resources Code Section 5097.98.	City of Vista Community Development Department, qualified archeologist, TCA Native American Monitor	During and post construction	
MM-CUL-5 Recovered cultural material of historic significance, but not of tribal significance, shall be curated with accompanying catalog, photographs, and reports to a San Diego curation facility that meets federal standards per 36 CFR Part 79. If cultural material will be returned to the Tribe(s) rather than curated, diagnostic artifacts or particularly good examples of specific tool types, if such are recovered, should be scanned for 3D printing, with the permission of the Tribe(s). The data from 3D scanning would be curated at an appropriate repository, such as the San Diego Archaeological Center. The cultural material can then be returned to the Tribe(s) for reburial or other treatment. Recovered cultural material of tribal cultural significance shall be repatriated as stipulated in the pre-excavation agreement as described in MM-CUL-2	City of Vista Community Development Department, qualified archeologist, TCA Native American Monitor	During and post construction	
MM-CUL-6 As specified by California Health and Safety Code Section 7050.5, if human remains are found on the project site during construction or during archaeological work, the person responsible for the excavation, or his or her authorized representative, shall immediately notify the San Diego County Coroner's office by telephone. No further excavation or disturbance of the discovery or any nearby area reasonably suspected to overlie adjacent remains (as determined by the	Qualified archeologist, TCA Native American monitor, San Diego County Corner	During construction	

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Qualified Archaeologist and/or the TCA Native American monitor) shall occur until the Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code 5097.98. If such a discovery occurs, a temporary construction exclusion zone shall be established surrounding the area of the discovery so that the area would be protected (as determined by the Qualified Archaeologist and/or the TCA Native American monitor), and consultation and treatment could occur as prescribed by law. As further defined by State law, the Coroner would determine within two working days of being notified if the remains are subject to his or her authority. If the Coroner recognizes the remains to be Native American, he or she shall contact the Native American Heritage Commission within 24 hours. The Native American Heritage Commission would then make a determination as to the Most Likely Descendent. If Native American remains are discovered, the remains shall be kept in situ ("in place"), or in a secure location in close proximity to where they were found, until after the Medical Examiner makes its determination and notifications, and until after the Most Likely Descendant is identified. The analysis of the remains shall only occur on-site in the presence of a Most Likely Descendant. The specific locations of Native American burials and reburials will be proprietary and not disclosed to the general public. According to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100), and disturbance of Native American cemeteries is a felony (Section 7052). In the event that the project proponent and the MLD are in disagreement regarding the disposition of the remains, State law will apply, and the mediation process will occur with NAHC. In the event that mediation is not successful, the landowner shall rebury the remains at a location free from future disturbance (see Public Resources Code Section 5097.98(e) and 5097.94(k)).			

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Geology and Soils			
MM GEO-1 Unanticipated Paleontological Resources. If an inadvertent discovery of paleontological resources (e.g., fossilized plant, shell, or animal bone) is made during project-related construction activities, ground disturbance in the area of the find shall be halted; the discovered resource shall be roped off; and the City of Vista and a qualified professional paleontologist shall be contacted. The qualified paleontologist shall be assigned to determine whether the resource is potentially significant as per the Society of Vertebrate Paleontology 2010 and County of San Diego (2009) guidelines for mitigation and develop appropriate treatment measures.	City of Vista Community Development Department, Qualified Paleontologist	During	
Noise			
MM-NOI-1 Construction Noise Reduction The following recommendations from Appendix I shall be implemented by the construction contractor to reduce construction noise onsite, to the satisfaction of the City of Vista Community Development Department, to ensure that project construction would not exceed the City's adopted daytime threshold for construction noise exposure of 75 dBA for an eight-hour period: ▪ Administrative controls (e.g., prohibit usage of equipment type[s] within certain distances). ▪ Engineering controls (upgrade noise controls, such as install better engine exhaust mufflers). ▪ Install noise abatement on the site boundary fencing (or within, as practical and appropriate) in the form of sound blankets or comparable temporary barriers (e.g., stacked sheets of plywood supported with framing) to occlude construction noise emission between the site (or specific equipment operation as the situation may define) and offsite noise-sensitive receptor(s) of concern.	City of Vista Community Development Department	Prior to and during construction	

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▪ At the outset of a project construction activity, an unattended noise level monitor shall be deployed onsite to measure and document that noise exposure levels attributed to project construction activity at adjacent offsite sensitive receptors are in conformance with the 75 dBA 8-hour L_{eq} threshold.			
MM-NOI-2 Traffic Noise Reduction. Where exterior noise levels are predicted to exceed 65 dBA CNEL at useable open space areas, the contractor should install noise-reducing features external to or upon the useable open space areas (or within, as practical and appropriate) in the form of sound walls, fencing, landscape berms, or similarly performing barriers of at least 6 feet in height to occlude incoming roadway traffic noise, to the satisfaction of the City of Vista Community Development Department, to ensure that there is no exceedance of the 65 dBA CNEL threshold..	City of Vista Community Development Department	During construction	
Tribal Cultural Resources			
See Mitigation Measures **MM-CUL-1** through **MM-CUL-5** above.	See above.	See above.	